

1040-9

No. 530.

47

October 1, 1904.

The Western Electric Company,
Eleventh and York Sts., PHILADELPHIA, PA.

WHOLESALE AGENTS FOR

THE FLETCHER MANUFACTURING CO.

MANUFACTURERS OF

Electrical Construction Supplies,

DAYTON, OHIO.

OFFICE AND WAREHOUSE:

South-East Corner Second and Canal Streets.

FRANKLIN INSTITUTE
PHILADELPHIA

Special
Notice.

The prices given in this Catalogue are those which prevailed at date of its publication; but we reserve the right to make changes at any time, and without notice.

THE FLETCHER MANUFACTURING CO.

UNIVERSAL MILKMAKER
AND DAIRY JUG

Fletcher's Gem Wire Holders.

(PATENTED.)

With Porcelain Insulations.

No.	Op.	Price.	No.	Op.	Price.
1303..	$\frac{3}{16}$..	12 cts.	1317..	$1\frac{3}{8}$..	31 cts.
1304..	$\frac{1}{4}$..	12 "	1318..	$1\frac{1}{2}$..	31 "
1305..	$\frac{3}{8}$..	12 "	1319..	$1\frac{5}{8}$..	48 "
1306..	$\frac{1}{2}$..	16 "	1320..	$1\frac{3}{4}$..	48 "
1308..	$\frac{5}{8}$..	20 "	1321..	$1\frac{7}{8}$..	48 "
1310..	$\frac{3}{4}$..	20 "	1322..	2 ..	48 "
1312..	$\frac{7}{8}$..	20 "	1323..	$2\frac{1}{8}$..	60 "
1314..	1 ..	20 "	1324..	$2\frac{1}{4}$..	60 "
1315..	$1\frac{1}{8}$..	20 "	1325..	$2\frac{3}{8}$..	60 "
1316..	$1\frac{1}{4}$..	31 "	1326..	$2\frac{1}{2}$..	60 "



With Porcelain Insulations.

No.	Op.	Price.	No.	Op.	Price.
2367..	$\frac{3}{16}$..	12 cts.	2381..	$1\frac{3}{8}$..	31 cts.
2368..	$\frac{1}{4}$..	12 "	2382..	$1\frac{1}{2}$..	31 "
2369..	$\frac{3}{8}$..	12 "	2383..	$1\frac{5}{8}$..	48 "
2370..	$\frac{1}{2}$..	16 "	2384..	$1\frac{3}{4}$..	48 "
2372..	$\frac{5}{8}$..	20 "	2385..	$1\frac{7}{8}$..	48 "
2374..	$\frac{3}{4}$..	20 "	2386..	2 ..	48 "
2376..	$\frac{7}{8}$..	20 "	2410..	$2\frac{1}{8}$..	60 "
2378..	1 ..	20 "	2411..	$2\frac{1}{4}$..	60 "
2379..	$1\frac{1}{8}$..	20 "	2412..	$2\frac{3}{8}$..	60 "
2380..	$1\frac{1}{4}$..	31 "	2413..	$2\frac{1}{2}$..	60 "



With Porcelain Insulations.

No.	Op.	Price.	No.	Op.	Price.
481..	$\frac{3}{16}$..	12 cts.	426 $\frac{1}{2}$..	$1\frac{3}{8}$..	31 cts.
482..	$\frac{1}{4}$..	12 "	427..	$1\frac{1}{2}$..	31 "
483..	$\frac{3}{8}$..	12 "	427 $\frac{1}{2}$..	$1\frac{5}{8}$..	48 "
421..	$\frac{1}{2}$..	16 "	428..	$1\frac{3}{4}$..	48 "
422..	$\frac{5}{8}$..	20 "	428 $\frac{1}{2}$..	$1\frac{7}{8}$..	48 "
423..	$\frac{3}{4}$..	20 "	429..	2 ..	48 "
424..	$\frac{7}{8}$..	20 "	430..	$2\frac{1}{8}$..	60 "
425..	1 ..	20 "	431..	$2\frac{1}{4}$..	60 "
425 $\frac{1}{2}$..	$1\frac{1}{8}$..	20 "	432..	$2\frac{3}{8}$..	60 "
426..	$1\frac{1}{4}$..	31 "	433..	$2\frac{1}{2}$..	60 "



With Porcelain Insulations.

No.	Op.	Price.	No.	Op.	Price.
2355..	$\frac{3}{16}$..	12 cts.	2363 $\frac{1}{2}$..	$1\frac{3}{8}$..	31 cts.
2356..	$\frac{1}{4}$..	12 "	2364..	$1\frac{1}{2}$..	31 "
2357..	$\frac{3}{8}$..	12 "	2364 $\frac{1}{2}$..	$1\frac{5}{8}$..	48 "
2358..	$\frac{1}{2}$..	16 "	2365..	$1\frac{3}{4}$..	48 "
2359..	$\frac{5}{8}$..	20 "	2365 $\frac{1}{2}$..	$1\frac{7}{8}$..	48 "
2360..	$\frac{3}{4}$..	20 "	2366..	2 ..	48 "
2361..	$\frac{7}{8}$..	20 "	2350..	$2\frac{1}{8}$..	60 "
2362..	1 ..	20 "	2351..	$2\frac{1}{4}$..	60 "
2362 $\frac{1}{2}$..	$1\frac{1}{8}$..	20 "	2352..	$2\frac{3}{8}$..	60 "
2363..	$1\frac{1}{4}$..	31 "	2353..	$2\frac{1}{2}$..	60 "



With Opalescent Glass.

No. 1330..	$\frac{1}{2}$ inch op.	15 cts.
" 1332..	$\frac{5}{8}$	" .18 "
" 1334..	$\frac{3}{4}$	" .21 "
" 1336..	$\frac{7}{8}$	" .21 "
" 1338..	.1	" .21 "
" 1339..	$1\frac{1}{8}$	" .21 "
" 1340..	$1\frac{1}{4}$	" .38 "
" 1341..	$1\frac{3}{8}$	" .38 "
" 1342..	$1\frac{1}{2}$	" .38 "
" 1344..	$1\frac{3}{4}$	" .57 "
" 1346..	.2	" .57 "

With Opalescent Glass.

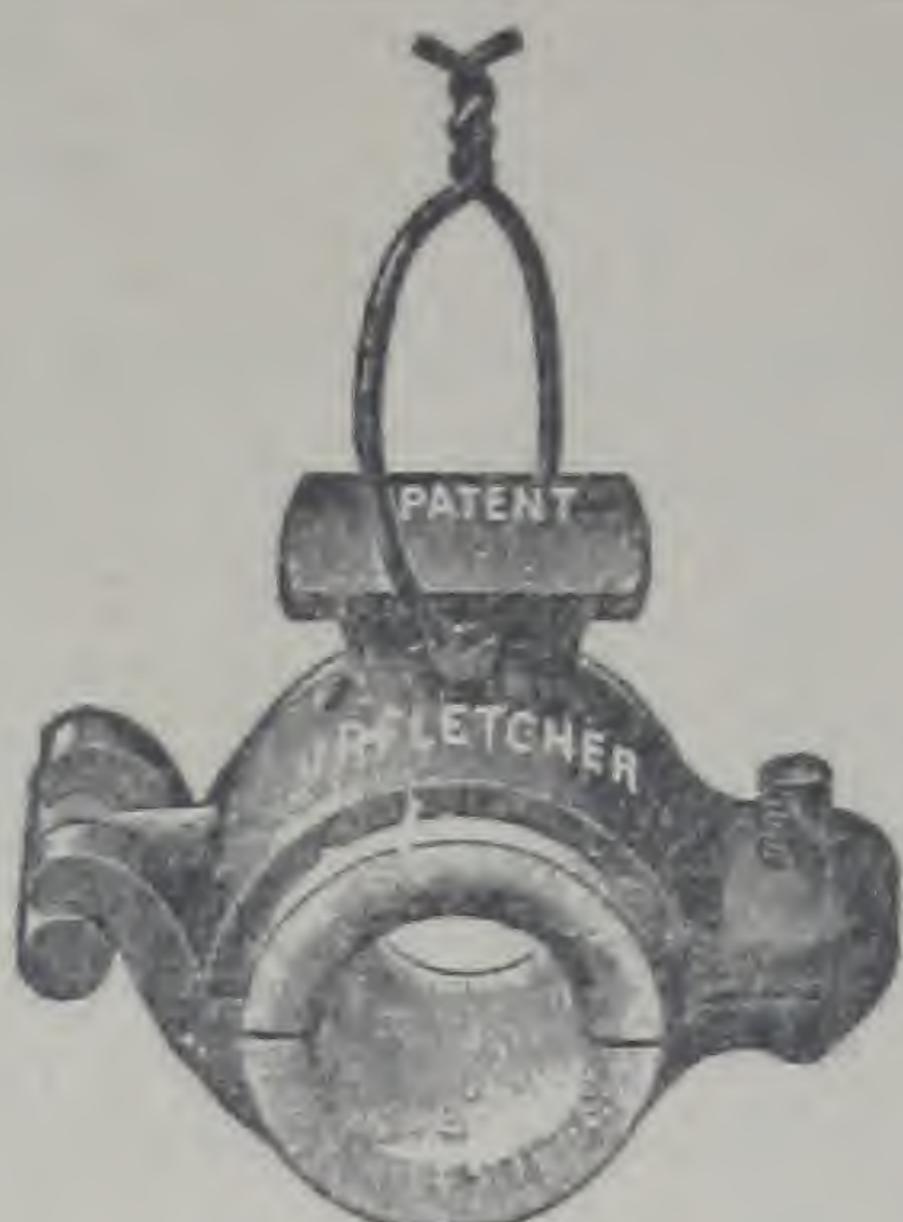
No. 2388..	$\frac{1}{2}$ inch op.	15 cts.
" 2390..	$\frac{5}{8}$	" .18 "
" 2392..	$\frac{3}{4}$	" .21 "
" 2394..	$\frac{7}{8}$	" .21 "
" 2396..	.1	" .21 "
" 2397..	$1\frac{1}{8}$	" .21 "
" 2398..	$1\frac{1}{4}$	" .38 "
" 2399..	$1\frac{3}{8}$	" .38 "
" 2400..	$1\frac{1}{2}$	" .38 "
" 2402..	$1\frac{3}{4}$	" .57 "
" 2404..	.2	" .57 "

With Opalescent Glass.

No. 487..	$\frac{1}{2}$ inch op.	15 cts.
" 488..	$\frac{5}{8}$	" .18 "
" 489..	$\frac{3}{4}$	" .21 "
" 490..	$\frac{7}{8}$	" .21 "
" 491..	.1	" .21 "
" 492 $\frac{1}{2}$..	$1\frac{1}{8}$	" .21 "
" 493..	$1\frac{1}{4}$	" .38 "
" 493 $\frac{1}{2}$..	$1\frac{3}{8}$	" .38 "
" 494..	$1\frac{1}{2}$	" .38 "
" 484..	$1\frac{3}{4}$	" .57 "
" 485..	.2	" .57 "

With Opalescent Glass.

No. 2858..	$\frac{1}{2}$ inch op.	15 cts.
" 2859..	$\frac{5}{8}$	" .18 "
" 2860..	$\frac{3}{4}$	" .21 "
" 2861..	$\frac{7}{8}$	" .21 "
" 2862..	.1	" .21 "
" 2862 $\frac{1}{2}$..	$1\frac{1}{8}$	" .21 "
" 2863..	$1\frac{1}{4}$	" .38 "
" 2863 $\frac{1}{2}$..	$1\frac{3}{8}$	" .38 "
" 2864..	$1\frac{1}{2}$	" .38 "
" 2865..	$1\frac{3}{4}$	" .57 "
" 2866..	.2	" .57 "



Fletcher's "Tree" Wire Holders.

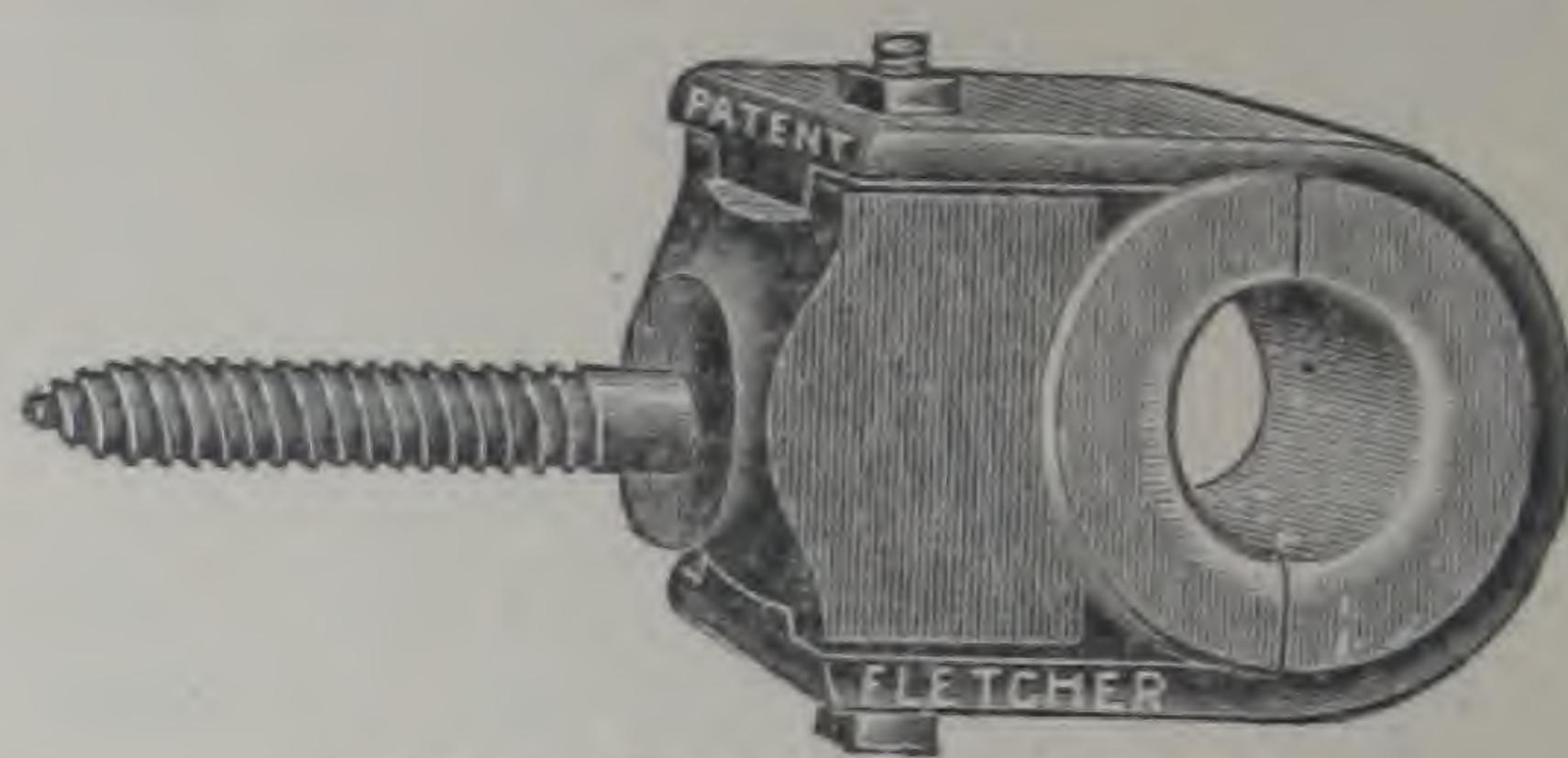
(PATENTED)

No. 495.	$\frac{5}{8}$ inch opening,	25c
No. 496.	$\frac{3}{4}$ " "	25c
No. 497.	$\frac{7}{8}$ " "	25c
No. 492.	1 " "	25c

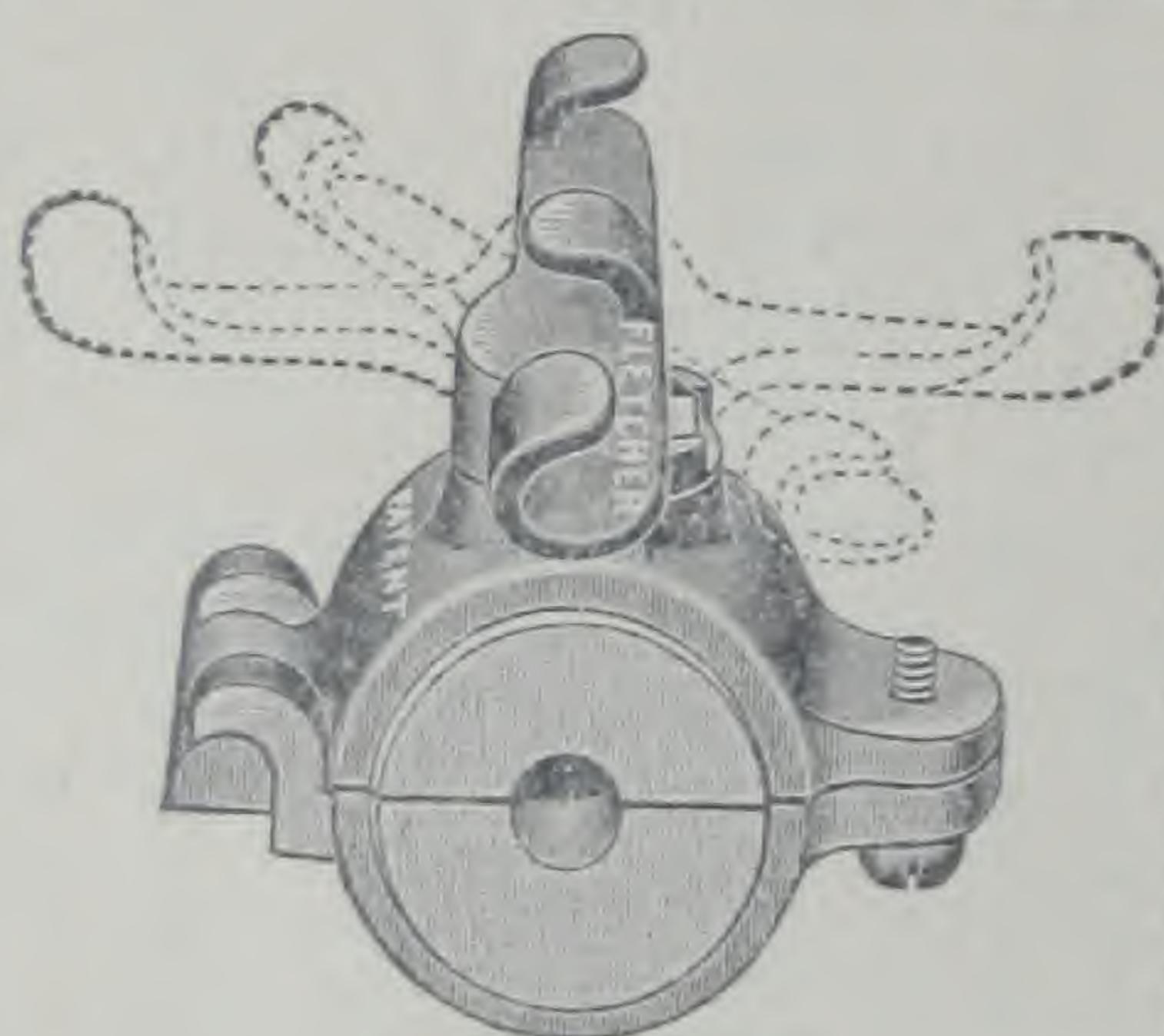
Fletcher's "Jumbo" Tree Wire Holder.

(PATENTED.)

No. 457.	$\frac{5}{8}$ inch opening,	40c
No. 458.	$\frac{3}{4}$ " "	40c
No. 459.	$\frac{7}{8}$ " "	40c
No. 460.	1 " "	40c



Jumbo Tree Wire Holder.
(With $\frac{3}{8}$ inch Coach Screw.)



Fletcher's Gem Wire Holder.

(PATENTED.)

(With loops to any angle.)

With Porcelain Insulations.

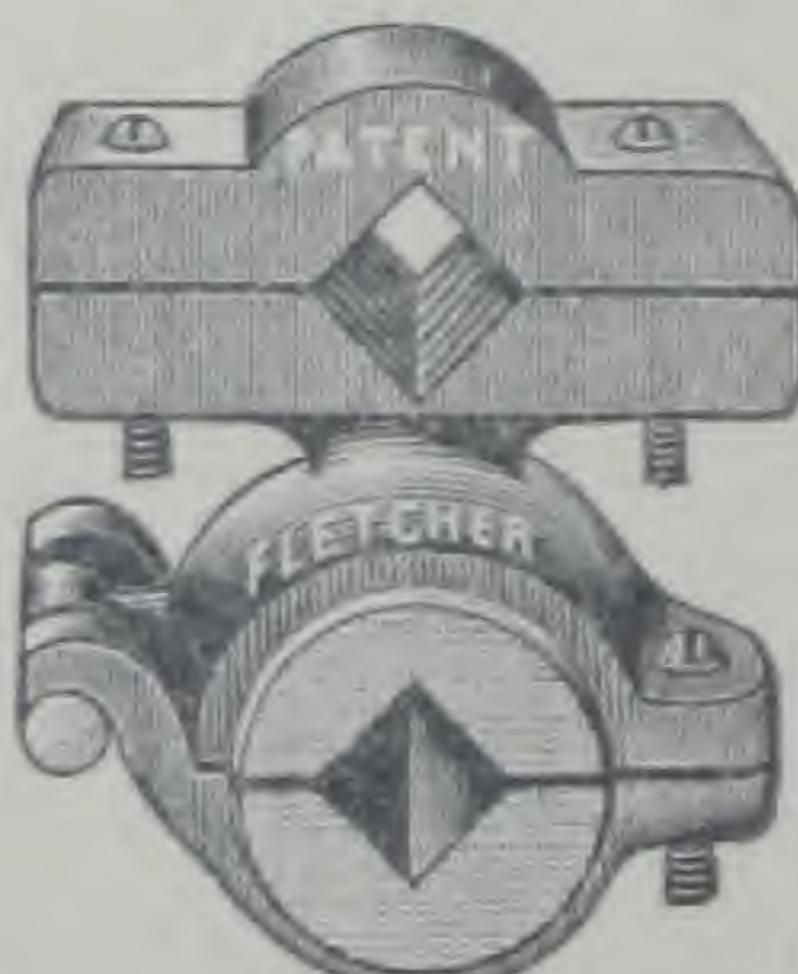
No. 522.	$\frac{5}{8}$ in. op.	30c
No. 523.	$\frac{3}{4}$ in. op.	30c
No. 524.	$\frac{7}{8}$ in. op.	30c
No. 525.	1 in. op.	30c
No. 526.	$1\frac{1}{8}$ in. op.	30c

With Glass Insulations.

No. 641.	$\frac{1}{2}$ in. op.	28c
No. 642.	$\frac{5}{8}$ in. op.	33c
No. 643.	$\frac{3}{4}$ in. op.	33c
No. 644.	$\frac{7}{8}$ in. op.	38c
No. 645.	1 in. op.	38c

Fletcher's Feed-Wire Insulator.

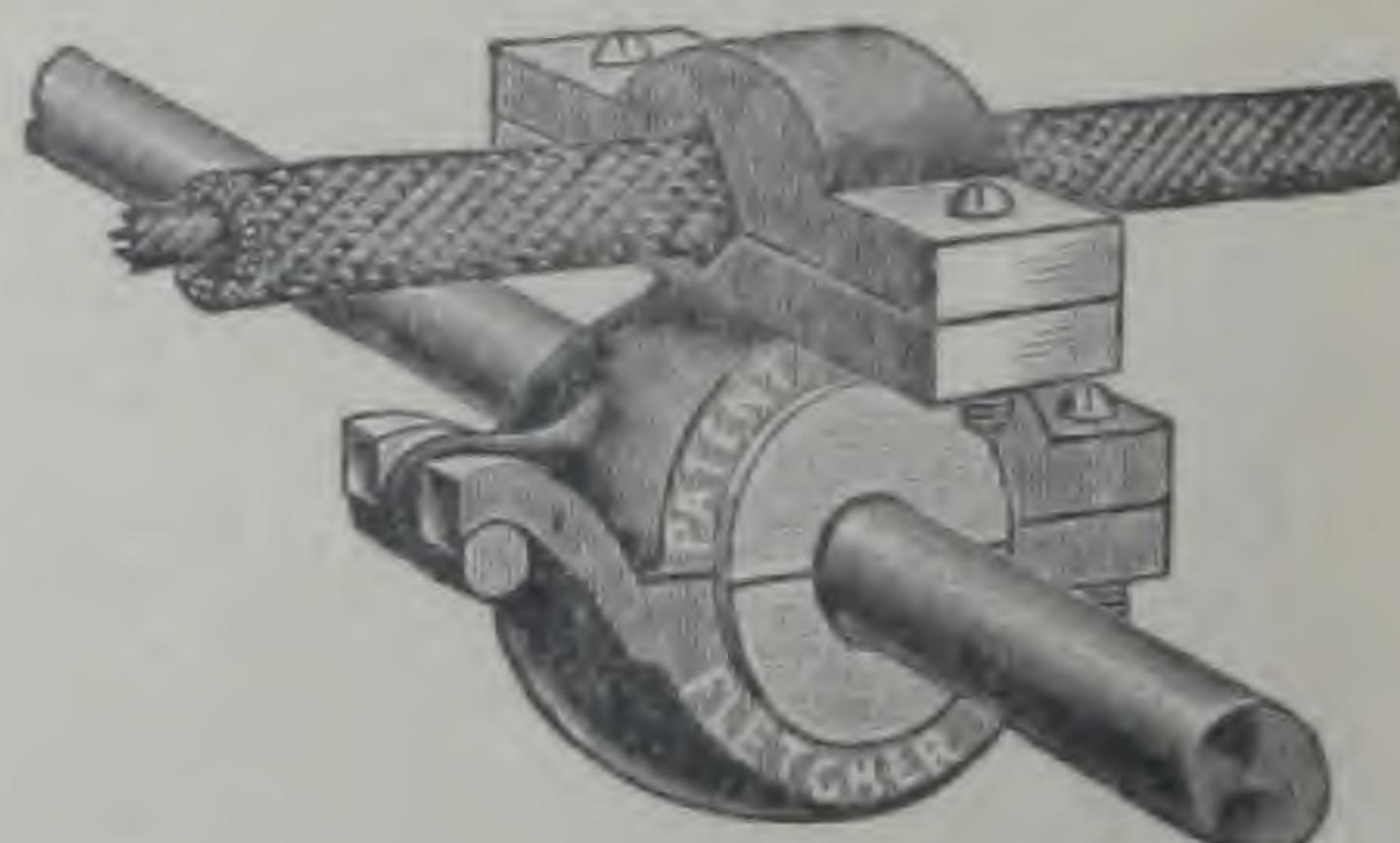
(PATENTED.)



No. 461.	$\frac{3}{8}$ inch opening,	15c
No. 462.	$\frac{1}{4}$ " "	15c
No. 463.	$\frac{5}{8}$ " "	15c

Fletcher's Feed-Wire Insulator.

(PATENTED.)

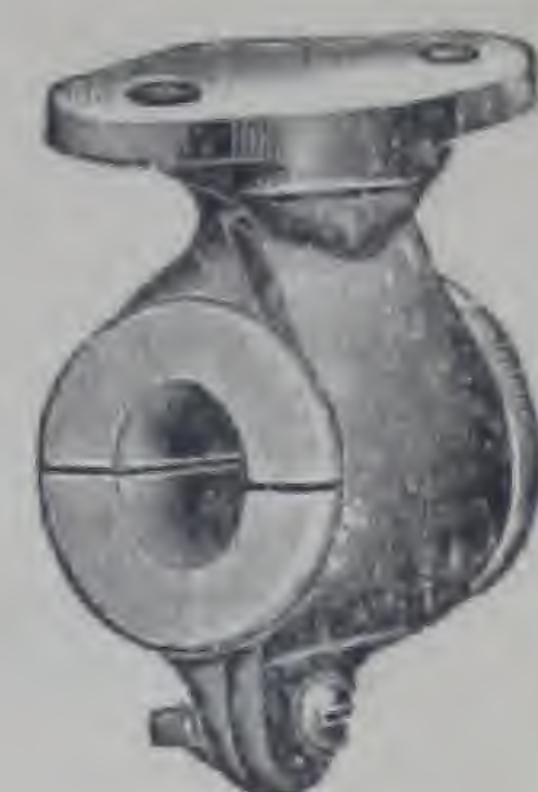


No. 601.	$\frac{3}{8}$ inch opening,	15c
No. 602.	$\frac{1}{4}$ " "	15c
No. 603.	$\frac{5}{8}$ " "	15c



FLETCHER'S

Universal Wire Holders.



(CAN BE USED WITH SCREWS OR BOLTS.)

With Porcelain Insulations.

No.	Op.	List.
2031.....	$\frac{3}{8}$ inch.....	10c
2032.....	$\frac{1}{4}$ ".....	10c
2033.....	$\frac{3}{8}$ ".....	10c
2034.....	$\frac{1}{2}$ ".....	14c
2035.....	$\frac{5}{8}$ ".....	18c
2036.....	$\frac{3}{4}$ ".....	18c
2037.....	$\frac{7}{8}$ ".....	18c
2038.....	1 ".....	18c
2039.....	$1\frac{1}{8}$ ".....	18c
2040.....	$1\frac{1}{4}$ ".....	30c

No.	Op.	List.
2041.....	$1\frac{3}{8}$ inch	30c
2042.....	$1\frac{1}{2}$ ".....	30c
2043.....	$1\frac{5}{8}$ ".....	45c
2044.....	$1\frac{3}{4}$ ".....	45c
2045.....	$1\frac{7}{8}$ ".....	45c
2046.....	2 ".....	45c
2047.....	$2\frac{1}{8}$ ".....	57c
2048.....	$2\frac{1}{4}$ ".....	57c
2049.....	$2\frac{3}{8}$ ".....	57c
2050.....	$2\frac{1}{2}$ ".....	57c

With Opalescent Glass.

No.	Op.	List.
2083.....	$\frac{1}{2}$ inch.....	14c
2084.....	$\frac{5}{8}$ ".....	17c
2085.....	$\frac{3}{4}$ ".....	20c
2086.....	$\frac{7}{8}$ ".....	20c
2087.....	1 ".....	20c
2088.....	$1\frac{1}{8}$ ".....	20c
2089.....	$1\frac{1}{4}$ ".....	36c
2090.....	$1\frac{3}{8}$ ".....	36c
2091.....	$1\frac{1}{2}$ ".....	36c
2092.....	$1\frac{3}{4}$ ".....	55c
2093.....	2 ".....	55c

Fletcher's Switch-Board Wire Holders.

With Porcelain Insulations.

No.	Size	Op.	Price.
1101.....	$\frac{3}{8}$ inch	...12c	
1102.....	$\frac{1}{4}$ "	...12c	
1103.....	$\frac{3}{8}$ "	...12c	
1104.....	$\frac{1}{2}$ "	...16c	
1105.....	$\frac{5}{8}$ "	...20c	
1106.....	$\frac{3}{4}$ "	...20c	

No.	Size	Op.	Price.
1107.....	$\frac{7}{8}$ inch	...20c	
1108.....	1 "	"	20c
1109.....	$1\frac{1}{8}$ "	"	20c
1110.....	$1\frac{1}{4}$ "	"	31c
1111.....	$1\frac{3}{8}$ "	"	31c
1112.....	$1\frac{1}{2}$ "	"	31c
1112 $\frac{1}{2}$	$1\frac{5}{8}$ "	"	31c

No.	Size	Op.	Price.
1113.....	$1\frac{3}{4}$ inch	...48c	
1113 $\frac{1}{2}$	$1\frac{7}{8}$ "	"	48c
1114.....	2 "	"	48c
1115.....	$2\frac{1}{8}$ "	"	60c
1116.....	$2\frac{1}{4}$ "	"	60c
1117.....	$2\frac{3}{8}$ "	"	60c
1118.....	$2\frac{1}{2}$ "	"	60c

With Opalescent Glass Insulations.

No.	Size	Op.	Price.
1121.....	$\frac{1}{2}$ inch	...15c	
1122.....	$\frac{5}{8}$ "	...18c	
1123.....	$\frac{3}{4}$ "	...21c	
1124.....	$\frac{7}{8}$ "	...21c	

No.	Size	Op.	Price.
1125.....	1 inch	...21c	
1126.....	$1\frac{1}{8}$ "	...21c	
1127.....	$1\frac{1}{4}$ "	...38c	
1128.....	$1\frac{3}{8}$ "	...38c	

No.	Size	Op.	Price.
1129.....	$1\frac{1}{2}$ inch	...38c	
1130.....	$1\frac{3}{4}$ "	"	57c
1131.....	2 "	"	57c

Fletcher's Insulated Iron Pin.

(PATENTED.)



With Glass Insulations.

No. 2931.....	$\frac{1}{4}$ inch op.....	30c
No. 2932	$\frac{3}{8}$ " "	30c
No. 2933.....	$\frac{1}{2}$ " "	30c
No. 2934.....	$\frac{5}{8}$ " "	30c
No. 2935.....	$\frac{3}{4}$ " "	30c

Fletcher's
Insulated
Iron
Bracket.

(PATENTED.)

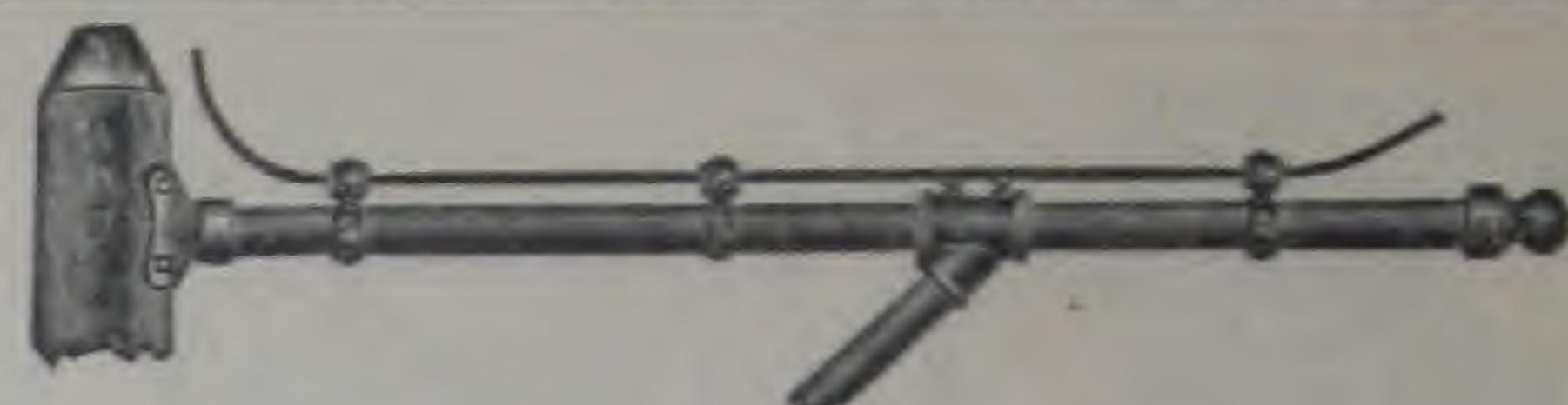
With Glass Insulations.

No. 2921.....	$\frac{1}{4}$ inch opening.....	50c
No. 2922.....	$\frac{3}{8}$ " "	50c
No. 2923	$\frac{1}{2}$ " "	50c
No. 2924.....	$\frac{5}{8}$ " "	50c
No. 2925.....	$\frac{3}{4}$ " "	50c

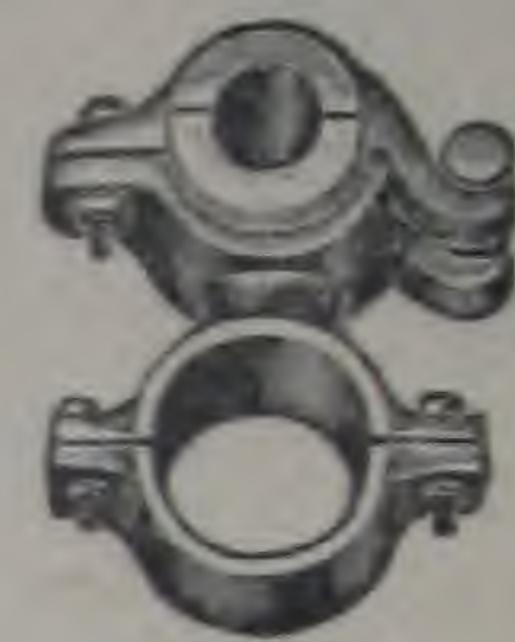
Fletcher's Insulated Bolt.



No. 1054.....	$\frac{1}{2} \times 12$ in.....	20c
No. 1055.....	$\frac{5}{8} \times 12$ in.....	22c



FLETCHER'S FEED-WIRE CLAMPS.



To Clamp 1 $\frac{1}{4}$ inch Pipe (1.66 inch Outside Diameter.)

WITH PORCELAIN INSULATIONS.

No.	Op.	List.
705.....	5/8 inch	40c
706.....	3/4 "	40c
707.....	7/8 "	40c
708.....	1 "	40c
709.....	1 1/8 "	40c

WITH OPALESCENT GLASS.

No.	Op.	List.
713.....	5/8 inch	42c
714.....	3/4 "	42c
715.....	7/8 "	42c
716.....	1 "	42c
717.....	1 1/8 "	42c

To Clamp 1 $\frac{1}{2}$ inch Pipe (1.90 inch Outside Diameter.)

No.	Op.	List.
725.....	5/8 inch	40c
726.....	3/4 "	40c
727.....	7/8 "	40c
728.....	1 "	40c
729.....	1 1/8 "	40c

No.	Op.	List.
733.....	5/8 inch	42c
734.....	3/4 "	42c
735.....	7/8 "	42c
736.....	1 "	42c
737.....	1 1/8 "	42c

To Clamp 2 inch Pipe (2.375 inch Outside Diameter.)

No.	Op.	List.
745.....	5/8 inch	40c
746.....	3/4 "	40c
747.....	7/8 "	40c
748.....	1 "	40c
749.....	1 1/8 "	40c

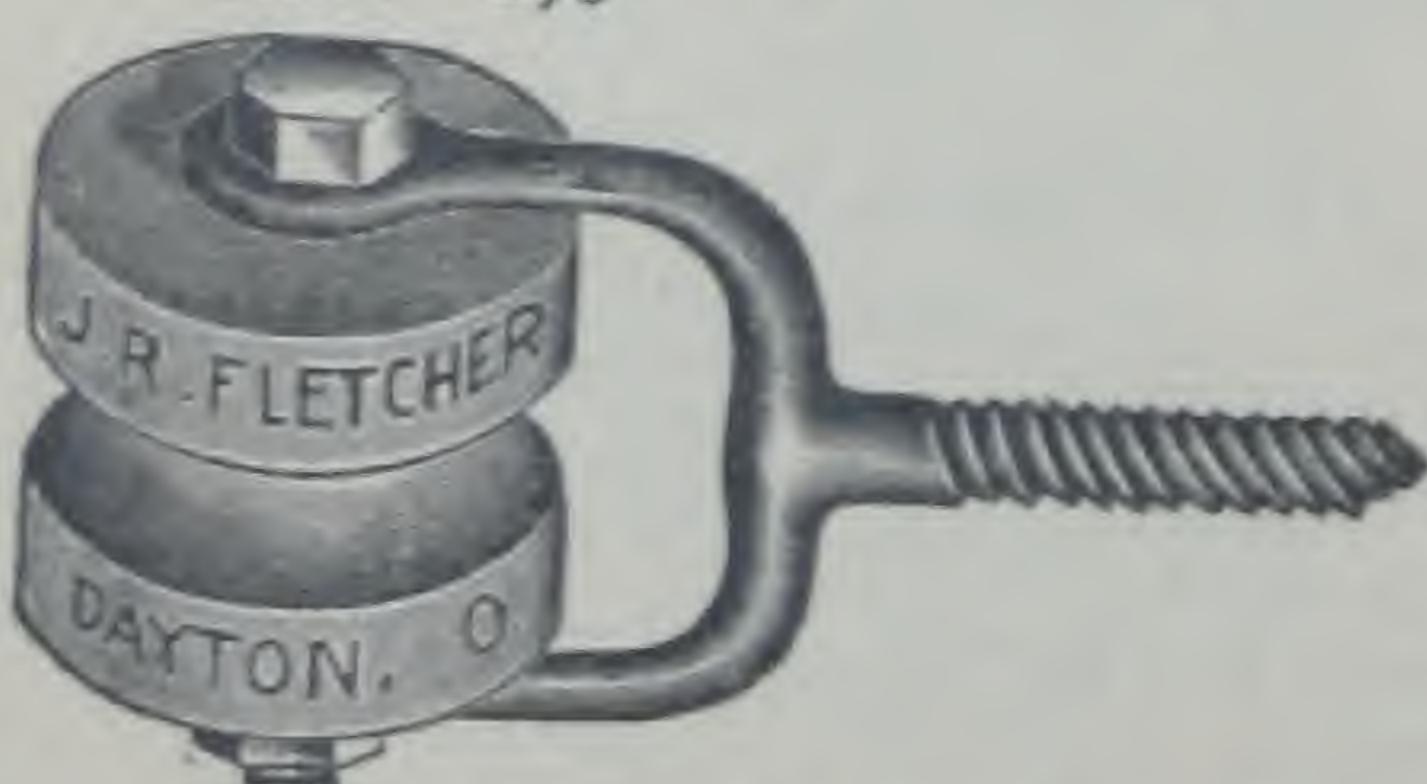
No.	Op.	List.
753.....	5/8 inch	42c
754.....	3/4 "	42c
755.....	7/8 "	42c
756.....	1 "	42c
757.....	1 1/8 "	42c

FLETCHER'S IRON CLAMPS.



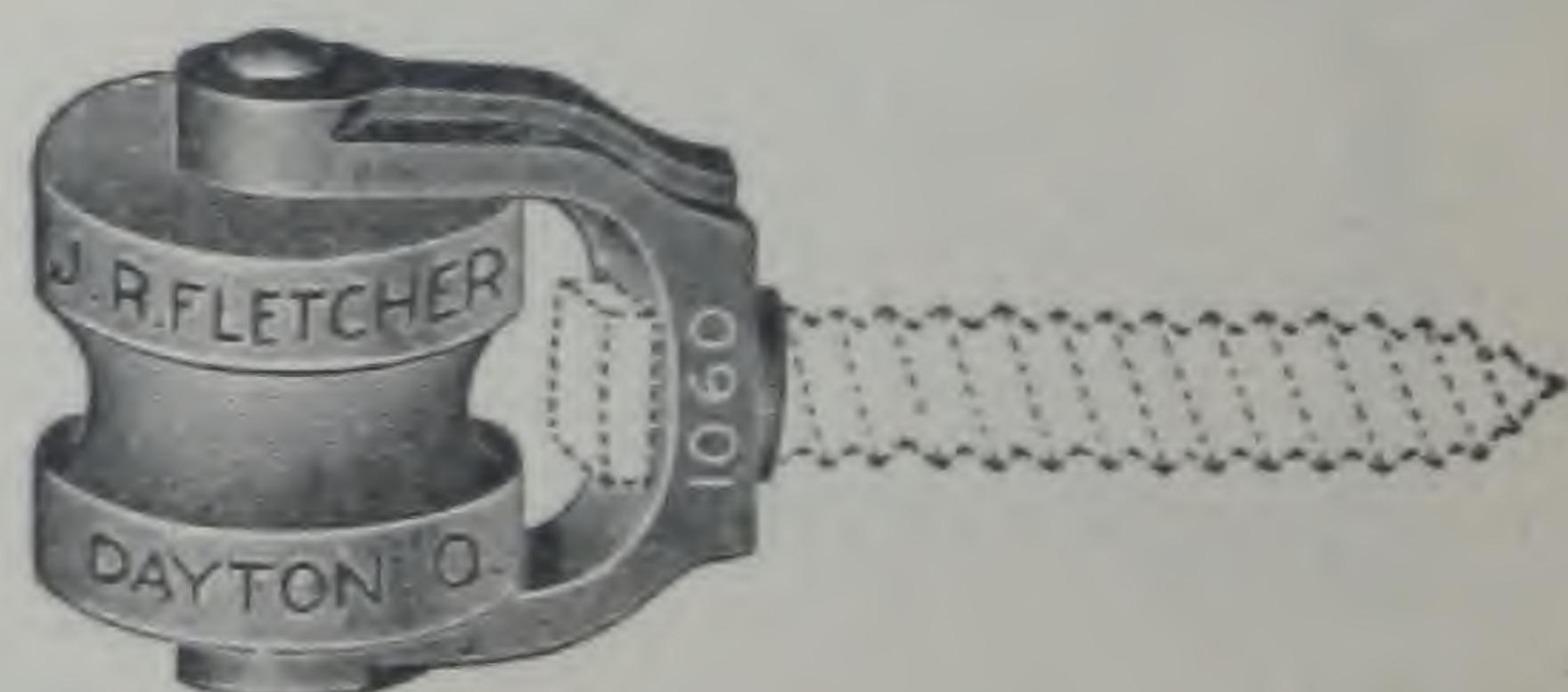
TOP PART ONLY

No. 1620.	3/4 inch op. per 100,	\$3 50	No. 1628.	1 3/4 inch op. per 100,	\$5 75
" 1621.	5/8 " "	3 50	" 1629.	1 1/8 " "	6 50
" 1622.	1 " "	3 50	" 1630.	2 " "	6 50
" 1623.	1 1/8 " "	4 00	" 1631.	2 1/8 " "	7 25
" 1624.	1 1/4 " "	4 00	" 1632.	2 1/4 " "	7 25
" 1625.	1 3/8 " "	4 75	" 1633.	2 3/8 " "	8 00
" 1626.	1 1/2 " "	4 75	" 1634.	2 1/2 " "	8 00
" 1627.	1 5/8 " "	5 75			



Insulated Malleable Screw.

No. 978.....(Kreos).....1 knob..... 28c
No. 979.....(Krems).....3 " 35c



Insulated Bolt Head.

No. 1060.....(Kyanol)..... 16c
For 1/2 inch or 5/8 inch lag screws
(Price does not include screws.)

OFFICE OF

The Fletcher Manufacturing Company,

Second and Canal Streets.

DAYTON, - OHIO.

October 1st, 1904.

We have discontinued merchandising and appointed the Western Electric Co. exclusive agents for our manufactures throughout the territory in which their various offices are located. They will carry a full line of our devices in their warehouses ready for immediate shipment, and through this means convenience our former friends and customers.

We would thank you to favor us with your orders through the Western Electric Co.

The Fletcher Manufacturing Co.

The Western Electric Co., 463 West St., New York, N. Y.

Western Electric Co., 11th and York Sts., Philadelphia, Pa.

Western Electric Co., 259 S. Clinton St., Chicago, Ill.

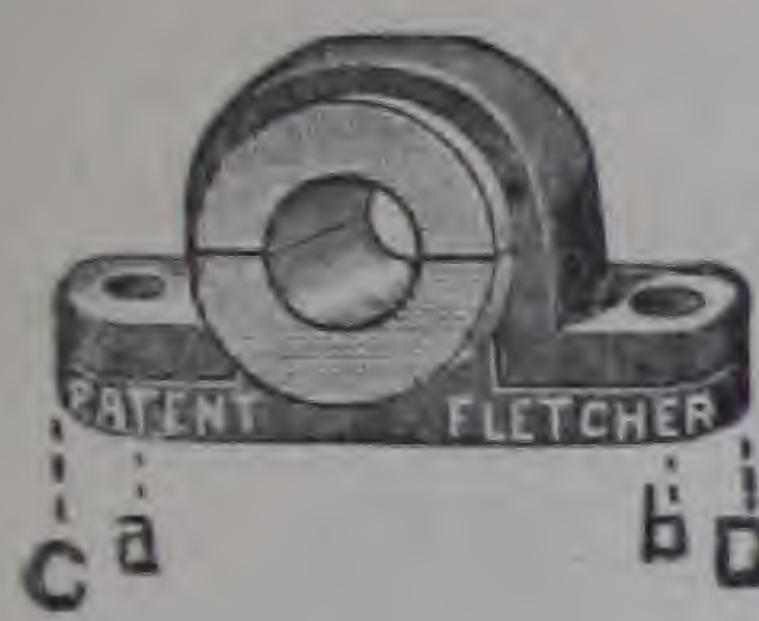
Western Electric Co., 810 Spruce St., St. Louis, Mo.

Western Electric Co., 1175 S. Seventh St., Denver, Col.

Western Electric Co., 228 W. Fifth St., Kansas City, Mo.

Standard Electric Co.
1113 W. Third St., Cincinnati, O.

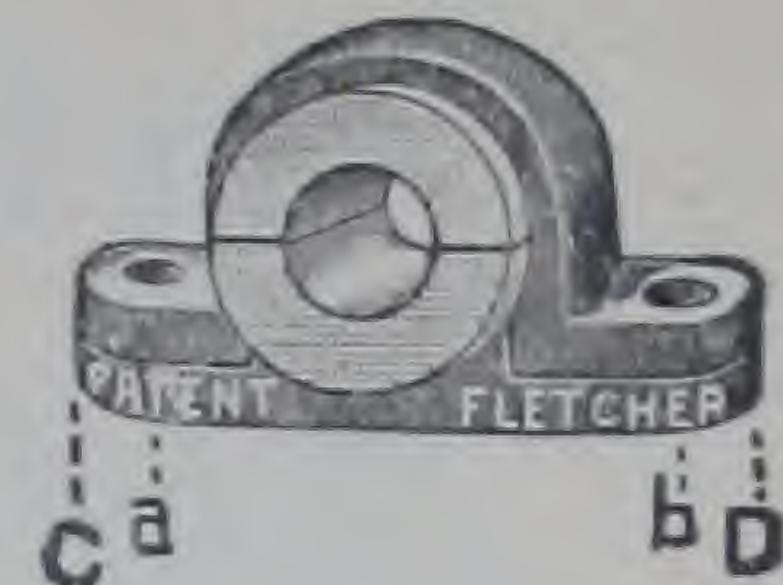
California Electrical Works,
547 Mission St., San Francisco, Cal.



Fletcher's Insulated Clamps.

JAPANNED IRON FRAMES.

(PATENTED.)



With Porcelain Insulations.

No. 1400.... $\frac{3}{8}$ inch.... 08c
" 1402.... $\frac{1}{4}$ " 08c
" 1404.... $\frac{3}{8}$ " 08c
Extreme length No. 1400-1404, C to D, $2\frac{5}{8}$ "
Between centers, a to b, $1\frac{5}{8}$ "
Screw-hole, $\frac{1}{4}$ "

No. 1440.... $\frac{1}{2}$ inch.... 10c
Extreme length No. 1440, C to D, $8\frac{1}{4}$ "
Between centers, a to b, $2\frac{3}{8}$ "
Screw-hole, $\frac{1}{4}$ "

No. 1442.... $\frac{5}{8}$ inch.... 18c
" 1444.... $\frac{3}{4}$ " 18c
" 1446.... $\frac{7}{8}$ " 18c
" 1448.... 1 " 18c
" 1449.... $1\frac{1}{8}$ " 18c
Extreme length No. 1442-1449, C to D, $5\frac{5}{8}$ "
Between centers, a to b, $4\frac{5}{8}$ "
Screw-hole, $\frac{3}{8}$ "

No. 1450... $1\frac{1}{4}$ inch.... 28c
" 1451.... $1\frac{3}{8}$ " 28c
" 1452.... $1\frac{1}{2}$ " 28c
Extreme length No. 1450-1452, C to D, $7\frac{1}{8}$ "
Between centers, a to b, $5\frac{5}{8}$ "
Screw-hole, $\frac{7}{16}$ "

No. 1453.... $1\frac{1}{8}$ inch.... 33c
" 1454.... $1\frac{3}{4}$ " 33c
" 1455.... $1\frac{7}{8}$ " 33c
" 1456.... 2 " 33c
Extreme length No. 1453-1456, C to D, $8\frac{5}{8}$ "
Between centers, a to b, $6\frac{3}{8}$ "
Screw-hole, $\frac{1}{2}$ "

No. 1457.... $2\frac{1}{8}$ inch.... 46c
" 1458.... $2\frac{1}{4}$ " 46c
" 1459.... $2\frac{3}{8}$ " 46c
" 1460.... $2\frac{1}{2}$ " 46c

Extreme length No. 1457-1460, C to D, $9\frac{5}{16}$ "
Between centers, a to b, $7\frac{5}{8}$ "
Screw-hole, $\frac{1}{2}$ "

No. 1461.... $2\frac{5}{8}$ inch.... 72c
" 1462.... $2\frac{3}{4}$ " 72c
" 1463.... $2\frac{7}{8}$ " 72c
" 1464.... 3 " 72c

Extreme length No. 1461-1464, C to D, $8\frac{1}{2}$ "
Between centers, a to b, 7"
Screw-hole, $\frac{1}{2}$ "

With Glass Insulations.

No. 1420.... $\frac{1}{2}$ inch.... 12c
Extreme length No. 1420, C to D, $3\frac{1}{4}$ "
Between centers, a to b, $2\frac{3}{8}$ "
Screw-hole, $\frac{1}{4}$ "

No. 1422.... $\frac{5}{8}$ inch.... 17c
" 1424.... $\frac{3}{4}$ " 17c
" 1426.... $\frac{7}{8}$ " 17c
" 1428.... 1 " 20c
Extreme length No. 1422-1428, C to D, $5\frac{5}{16}$ "
Screw-hole, $\frac{3}{8}$ "

No. 1430.... $1\frac{1}{4}$ inch.... 40c
" 1432.... $1\frac{1}{2}$ " 40c
" 1434.... $1\frac{3}{4}$ " 60c
" 1436.... 2 " 60c
Extreme length No. 1430-1436, C to D, $8\frac{5}{8}$ "
Between centers, a to b, $6\frac{3}{8}$ "
Screw-hole, $\frac{1}{2}$ "

The Fletcher Porcelain and Glass Split Insulations will not be sold as a separate item under any circumstances.



FLETCHER'S IRON CLAMPS.



TOP AND BOTTOM.

No.	Op.	Per 100	No.	Op.	Per 100	No.	Op.	Per 100
1601	$\frac{3}{4}$	\$ 7 00	1606	$1\frac{3}{8}$	\$ 9 50	1611	2	\$13 00
1602	$\frac{7}{8}$	7 00	1607	$1\frac{1}{2}$	9 50	1612	$2\frac{1}{8}$	14 50
1603	1	7 00	1608	$1\frac{5}{8}$	11 50	1613	$2\frac{1}{4}$	14 50
1604	$1\frac{1}{8}$	8 00	1609	$1\frac{3}{4}$	11 50	1614	$2\frac{3}{8}$	16 00
1605	$1\frac{1}{4}$	8 00	1610	$1\frac{7}{8}$	13 00	1615	$2\frac{1}{2}$	16 00

Fletcher Insulated Racks.

(PATENTED.)



(WITH THREE BENTS.)

Porcelain or Glass insulations can be used.

Owing to even pressure, insulations
are not easily broken.



(WITH FOUR BENTS.)



(WITH FIVE BENTS.)

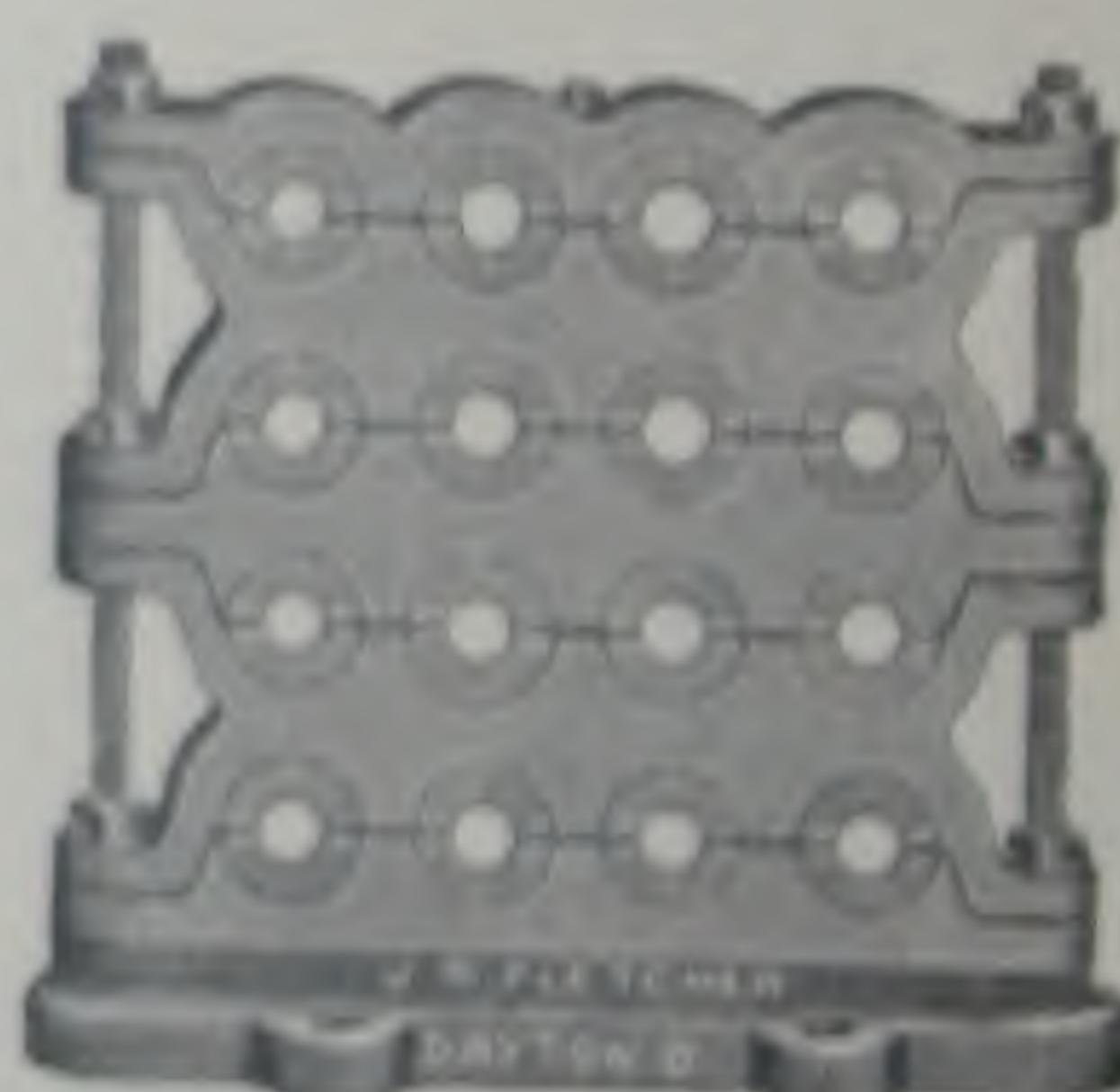
Clamps wires or cables of
any size.

Wires or cables of different outside diameters can be used
in the same rack.

FLETCHER NESTED RACKS.



The Nested Racks
are constructed to re-
ceive any desired
number and various
sizes wires or cables.



The Fletcher Insulated Racks and Nested Racks are patented. For description
in detail, see the following pages.

FLETCHER INSULATED RACKS.

(PATENTED.)



(With Two Bents.)



(With Two Bents.)

1809—With 2 sets of either the Porcelain Insulations named below..... 16
 $\frac{3}{16}'' - \frac{1}{4}'' - \frac{3}{8}''$.

Extreme length, C to D, $5\frac{1}{4}''$. Between centers, a to b, $4\frac{3}{8}''$.
 Screw-hole, $\frac{5}{16}''$.

1813—With 2 sets of either the insulations named below:

Price with $\frac{1}{2}''$ porc. ins.... 20. Price with $\frac{1}{2}''$ glass ins.... 25
 Extreme length, C to D, 6". Between centers, a to b, 5".
 Screw-hole, $\frac{3}{8}''$.

1817—With 2 sets of either the insulations named below:

Price with porc. ins..... 36. Price with glass ins..... 42
 $\frac{5}{8}'' - \frac{3}{4}'' - \frac{7}{8}'' - 1'' - 1\frac{1}{8}''$. $\frac{5}{8}'' - \frac{3}{4}'' - \frac{7}{8}'' - 1''$.
 Extreme length, C to D, $8\frac{1}{2}''$. Between centers, a to b, $7\frac{1}{8}''$.
 Screw-hole, $\frac{3}{8}''$.

1821—With 2 sets of either the insulations named below:

Price with porc. ins..... 56. Price with glass ins..... 80
 $1\frac{1}{4}'' - 1\frac{3}{8}'' - 1\frac{1}{2}'' - 1\frac{5}{8}''$. $1\frac{1}{4}'' - 1\frac{1}{2}''$.
 Extreme length, C to D, 10". Between centers, a to b, $8\frac{3}{4}''$.
 Screw-hole, $\frac{7}{16}$.

1825—With 2 sets of either the insulations named below:

Price with porc. ins..... 66. Price with glass ins \$1 20
 $1\frac{3}{4}'' - 1\frac{1}{8}'' - 2''$ $1\frac{3}{4}'' - 2''$
 Extreme length, C to D, $12\frac{3}{4}''$. Between centers, a to b, $11\frac{1}{8}''$.
 Screw-hole, $\frac{1}{2}''$.

1829—With 2 sets of either the Porcelain Insulations named below..... 92

$2\frac{1}{8}'' - 2\frac{1}{4}'' - 2\frac{3}{8}'' - 2\frac{1}{2}''$.
 Extreme length, C to D, $14\frac{1}{4}''$. Between centers, a to b, $12\frac{1}{4}''$.
 Screw-hole, $\frac{1}{2}''$.

1833—With 2 sets of either the Porcelain Insulations named below.....

$2\frac{5}{8}'' - 2\frac{3}{4}'' - 2\frac{7}{8}'' - 3''$.
 Extreme length, C to D, 16". Between centers, a to b, 14".
 Screw-hole, $\frac{1}{2}''$. Write for prices.

FLETCHER INSULATED RACKS. (PATENTED.)



(With Three Bents.)

No.	Price.
1810—With 3 sets of either the Porcelain Insulations named below.....	\$ 24
$\frac{3}{16}'' - \frac{1}{4}'' - \frac{3}{8}''$.	
Extreme length C to D, 6". Between centers, a to b, 5 $\frac{1}{4}$ ".	
Screw-hole, $\frac{1}{4}$ ".	
1814—With 3 sets of either the insulations named below :	
Price with $\frac{1}{2}$ " porc. ins..... 30. Price with $\frac{1}{2}$ " glass ins..... 45	
Extreme length, C to D, 7 $\frac{3}{8}$ ". Between centers, a to b, 6 $\frac{1}{8}$ ".	
Screw-hole, $\frac{5}{16}$ ".	
1818—With 3 sets of either the insulations named below :	
Price with porc. ins..... 54. Price with glass ins..... 63	
$\frac{5}{8}'' - \frac{3}{4}'' - \frac{7}{8}'' - 1'' - 1\frac{1}{8}''$. $\frac{5}{8}'' - \frac{3}{4}'' - \frac{7}{8}'' - 1''$.	
Extreme length, C to D, 10 $\frac{3}{4}$ ". Between centers, a to b, 9 $\frac{1}{4}$ ".	
Screw-hole, $\frac{3}{8}$ ".	
1822—With 3 sets of either the insulations named below :	
Price with porc. ins..... 84. Price with glass ins..... 1 32	
$1\frac{1}{4}'' - 1\frac{3}{8}'' - 1\frac{1}{2}'' - 1\frac{5}{8}''$. $1\frac{1}{4}'' - 1\frac{1}{2}''$.	
Extreme length, C to D, 13 $\frac{1}{2}$ ". Between centers, a to b, 12 $\frac{1}{8}$ ".	
Screw-hole, $\frac{3}{8}$ ".	
1826—With 3 sets of either the insulations named below :	
Price with porc. ins..... 99. Price with glass ins..... 1 53	
$1\frac{3}{4}'' - 1\frac{1}{8}'' - 2''$. $1\frac{3}{4}'' - 2''$.	
Extreme length, C to D, 16 $\frac{1}{8}$ "; Between centers, a to b, 14 $\frac{5}{16}$ ".	
Screw-hole, $\frac{1}{2}$ ".	
1830—With 3 sets of either the Porcelain Insulations named below..... 1 38	
$2\frac{1}{8}'' - 2\frac{1}{4}'' - 2\frac{3}{8}'' - 2\frac{1}{2}''$.	
Extreme length, C to D, 18 $\frac{1}{2}$ ". Between centers, a to b, 16 $\frac{5}{8}$ ".	
Screw-hole, $\frac{1}{2}$ ".	
1834—With 3 sets of either the Porcelain Insulations named below.....	
$2\frac{5}{8}'' - 2\frac{3}{4}'' - 2\frac{7}{8}'' - 3''$.	
Extreme length, C to D, 18 $\frac{3}{4}$ ". Between centers, a to b, 17 $\frac{1}{4}$ ".	
Screw-hole, $\frac{1}{2}$ ". Write for prices.	

FLETCHER INSULATED RACKS.

(PATENTED.)



(With Four Bents.)

No.	Price.
1811—With 4 sets of either the Porcelain Insulations named below.....	32
$\frac{3}{16}'' - \frac{1}{4}'' - \frac{3}{8}''$.	
Extreme length, C to D, $7\frac{1}{4}''$. Between centers, a to b, $6\frac{3}{4}''$.	
Screw-hole, $\frac{1}{4}''$.	
1815—With 4 sets of either the insulations named below:	
Price with $\frac{1}{2}''$ porc. ins..... 40. Price with $\frac{1}{2}''$ glass ins..... 60	
Extreme length, C to D, $8\frac{7}{8}''$. Between centers, a to b, $7\frac{3}{4}''$.	
Screw-hole, $\frac{5}{16}''$.	
1819—With 4 sets of either the insulations named below:	
Price with porc. ins..... 72. Price with glass ins..... 84	
$\frac{5}{8}'' - \frac{3}{4}'' - \frac{7}{8}'' - 1'' - 1\frac{1}{8}''$. $\frac{5}{8}'' - \frac{3}{4}'' - \frac{7}{8}'' - 1''$.	
Extreme length, C to D, $13\frac{1}{8}''$. Between centers, a to b, $11\frac{3}{4}''$.	
Screw-hole, $\frac{3}{8}''$.	
1823—With 4 sets of either the insulations named below:	
Price with porc. ins..... 1 12. Price with glass ins..... 1 76	
$1\frac{1}{4}'' - 1\frac{3}{8}'' - 1\frac{1}{2}'' - 1\frac{5}{8}''$. $1\frac{1}{4}'' - 1\frac{1}{2}''$.	
Extreme length, C to D, $16\frac{3}{4}''$. Between centers, a to b, $15\frac{1}{4}''$.	
Screw-hole, $\frac{3}{8}''$.	
1827—With 4 sets of either the insulations named below:	
Price with porc. ins..... 1 32. Price with glass ins..... 2 04	
$1\frac{3}{4}'' - 1\frac{1}{8}'' - 2''$. $1\frac{3}{4}'' - 2''$.	
Extreme length, C to D, $19\frac{7}{8}''$. Between centers, a to b, 18".	
Screw-hole, $\frac{1}{2}''$.	
1831—With 4 sets of either the Porcelain Insulations named below.....	1 84
$2\frac{1}{8}'' - 2\frac{1}{4}'' - 2\frac{3}{8}'' - 2\frac{1}{2}''$.	
Extreme length, C to D, $23\frac{3}{16}$. Between centers, a to b, $21\frac{5}{16}$.	
Screw-hole, $\frac{1}{2}''$.	
1835—With 4 sets of either the Porcelain insulations named below:	
$2\frac{5}{8}'' - 2\frac{3}{4}'' - 2\frac{7}{8}'' - 3''$.	
Extreme length, C to D, $23\frac{7}{8}''$. Between centers, a to b, $22\frac{3}{8}''$.	
Screw-hole, $\frac{1}{2}''$. Write for prices.	

FLETCHER INSULATED RACKS.

(PATENTED.)

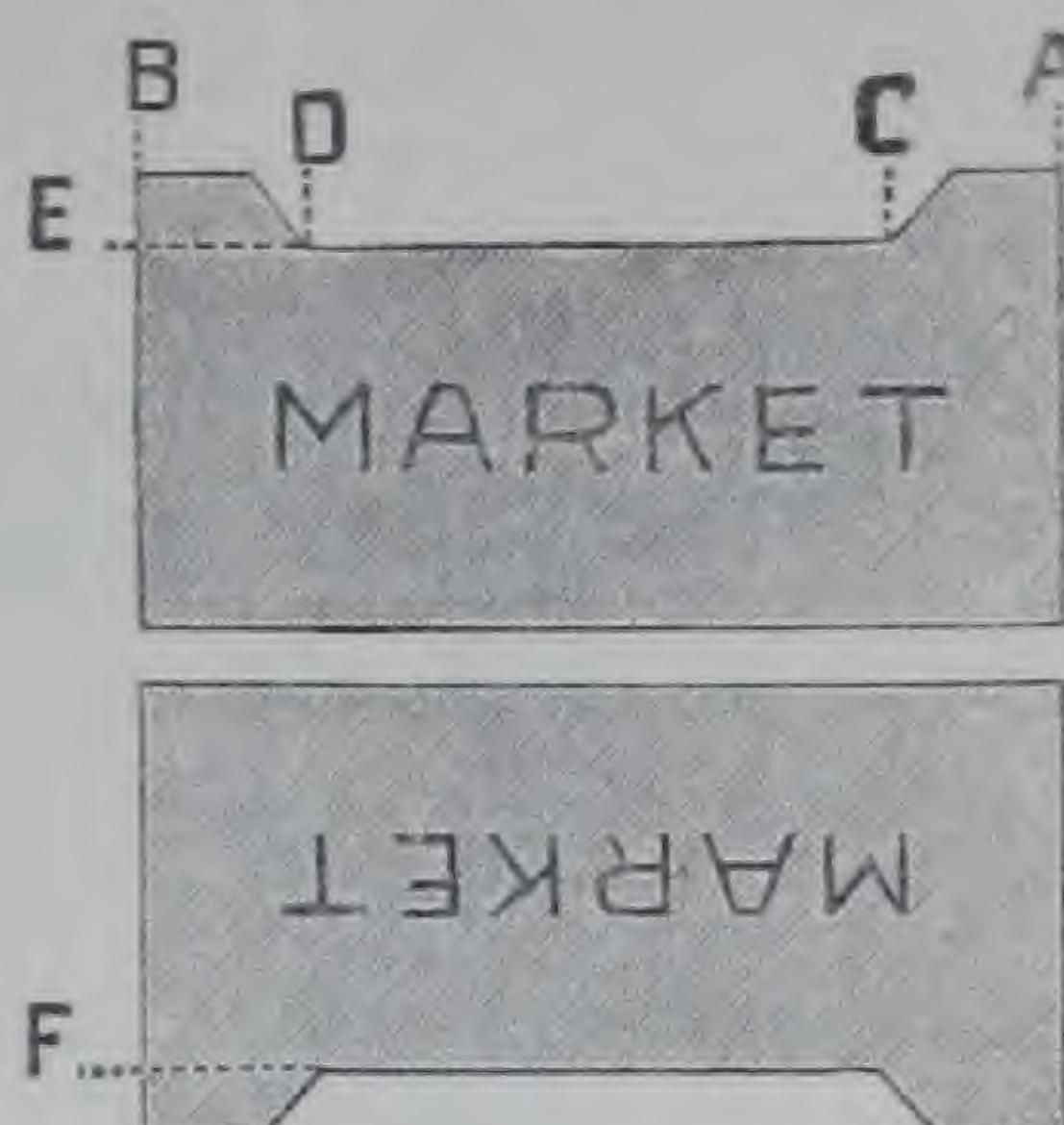


(With Five Bents.)

No.	Price.
1812—With 5 sets of either the Porcelain Insulations named below.....	40
$\frac{3}{8}'' - \frac{1}{4}'' - \frac{3}{8}''$	
Extreme length, C to D, $8\frac{5}{8}''$. Between centers, a to b, 8"	
Screw-hole, $\frac{1}{4}''$.	
1816—With 5 sets of either the insulations named below:	
Price with $\frac{1}{2}''$ porc. ins.... 50. Price with $\frac{1}{2}''$ glass ins.....	75
Extreme length, C to D, $10\frac{1}{2}''$. Between centers, a to b, $9\frac{1}{2}''$.	
Screw-hole, $\frac{5}{16}''$.	
1820—With 5 sets of either the insulations named below:	
Price with porc. ins..... 90. Price with glass ins..... 1 05	
$\frac{5}{8}'' - \frac{3}{4}'' - \frac{7}{8}'' - 1'' - 1\frac{1}{8}''$. $\frac{5}{8}'' - \frac{3}{4}'' - \frac{7}{8}'' - 1''$.	
Extreme length, C to D, $15\frac{5}{8}''$. Between centers, a to b, 14".	
Screw-hole, $\frac{3}{8}''$.	
1824—With 5 sets of either the insulations named below:	
Price with porc. ins..... 1 40. Price with glass ins..... 2 20	
$1\frac{1}{4}'' - 1\frac{3}{8}'' - 1\frac{1}{2}'' - 1\frac{5}{8}''$. $1\frac{1}{4}'' - 1\frac{1}{2}''$.	
Extreme length, C to D, 20". Between centers, a to b, $18\frac{1}{2}''$.	
Screw-hole, $\frac{3}{8}''$.	
1828—With 5 sets of either the insulations named below:	
Price with porc. ins..... 1 65. Price with glass ins..... 2 55	
$1\frac{3}{4}'' - 1\frac{1}{8}'' - 2''$. $1\frac{3}{4}'' - 2''$.	
Extreme length, C to D, $23\frac{1}{2}''$. Between centers, a to b, $21\frac{3}{4}''$.	
Screw-hole, $\frac{1}{2}''$.	
1832—With 5 sets of either the Porcelain Insulations named below.....	2 30
$2\frac{1}{8}'' - 2\frac{1}{4}'' - 2\frac{3}{8}'' - 2\frac{1}{2}''$.	
Extreme length, C to D, $27\frac{9}{16}''$. Between centers, a to b, $25\frac{3}{4}''$.	
Screw-hole, $\frac{1}{2}''$.	
1836—With 5 sets of either the Porcelain Insulations named below:	
$2\frac{5}{8}'' - 2\frac{3}{4}'' - 2\frac{7}{8}'' - 3''$.	
Extreme length, C to D, 29". Between centers, a to b, $27\frac{1}{2}''$.	
Screw-hole, $\frac{1}{2}''$. Write for prices.	

"Market" Porcelain Split Insulations.

SEE NOTATION AT BOTTOM
OF PAGE.

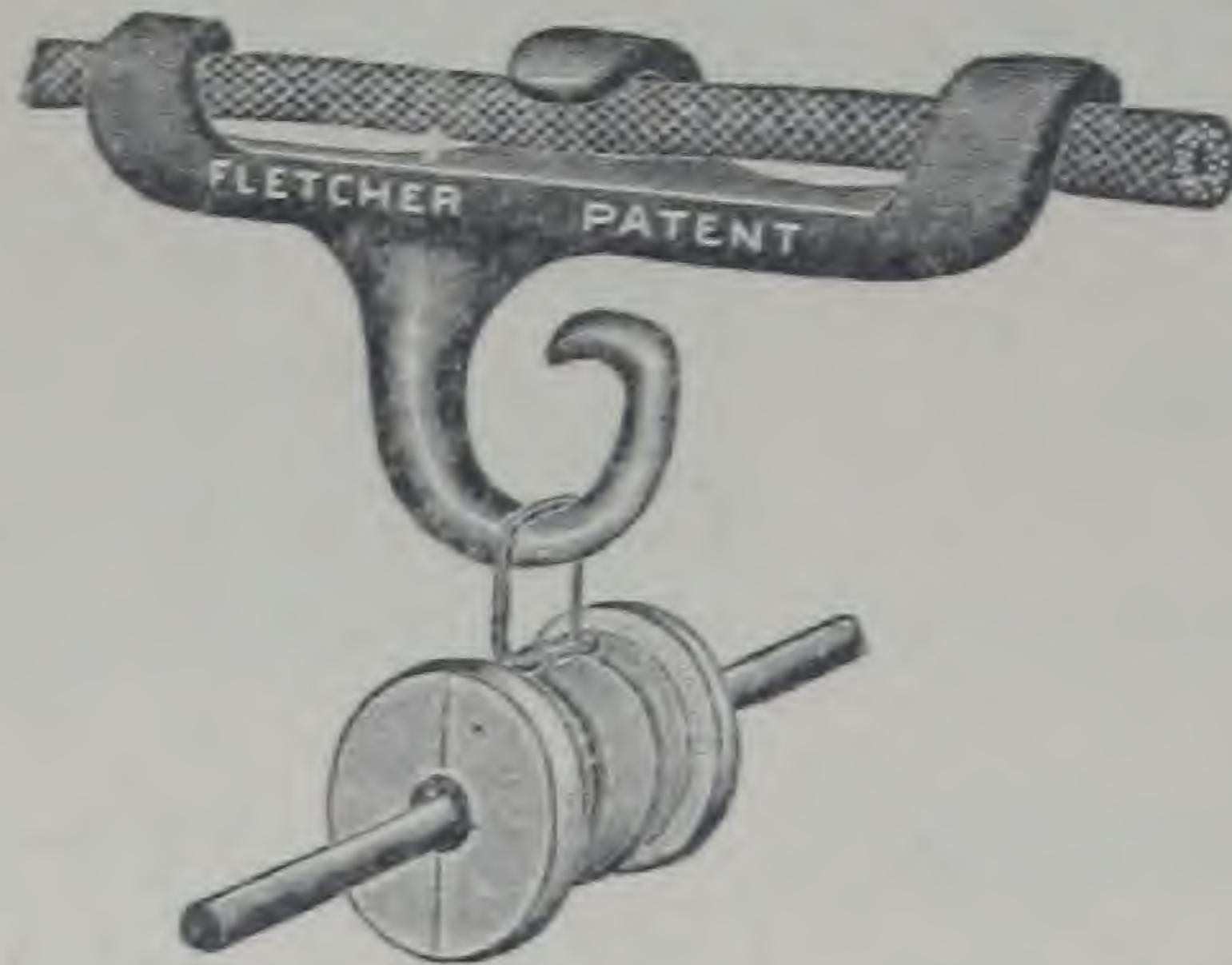


Cat. No.	Inside.	Flange.	Length.	Outside Dia.	Dia. End Flange.	Price Per 100 Pairs.
346.....	$\frac{3}{5}$ inch.	$\frac{3}{5}$ inch.	1 $\frac{1}{8}$ inch.....	1 inch.....	1 $\frac{1}{8}$ inch.	\$ 4 00
347	$\frac{4}{5}$ "	$\frac{3}{5}$ "	1 $\frac{1}{8}$ "	1 "	1 $\frac{1}{8}$ "	4 00
348.....	$\frac{3}{8}$ "	$\frac{3}{5}$ "	1 $\frac{1}{8}$ "	1 "	1 $\frac{1}{8}$ "	4 00
349.....	$\frac{1}{2}$ "	$\frac{3}{5}$ "	1 $\frac{1}{8}$ "	1 $\frac{1}{4}$ "	1 $\frac{1}{2}$ "	5 00
350.....	$\frac{5}{8}$ "	$\frac{5}{8}$ "	1 $\frac{1}{8}$ "	1 $\frac{1}{4}$ "	1 $\frac{1}{2}$ "	0 00 5 00
351.....	$\frac{3}{4}$ "	$\frac{3}{5}$ "	1 $\frac{1}{8}$ "	1 $\frac{1}{4}$ "	1 $\frac{1}{2}$ "	0 00 5 00
352.....	$\frac{7}{8}$ "	$\frac{5}{8}$ "	2 "	2 "	2 $\frac{1}{8}$ "	9 00
353.....	1 "	$\frac{5}{8}$ "	2 "	2 "	2 $\frac{1}{8}$ "	9 00
354.....	1 $\frac{1}{8}$ "	$\frac{5}{8}$ "	2 "	2 "	2 $\frac{1}{8}$ "	9 00
355.....	1 $\frac{1}{4}$ "	$\frac{3}{8}$ "	2 $\frac{1}{8}$ "	2 $\frac{1}{4}$ "	3 $\frac{1}{8}$ "	14 00
356.....	1 $\frac{1}{8}$ "	$\frac{3}{8}$ "	2 $\frac{1}{8}$ "	2 $\frac{1}{4}$ "	3 $\frac{1}{8}$ "	14 00
357.....	1 $\frac{1}{2}$ "	$\frac{3}{8}$ "	2 $\frac{1}{8}$ "	2 $\frac{1}{4}$ "	3 $\frac{1}{8}$ "	14 00
358.....	1 $\frac{5}{8}$ "	$\frac{7}{8}$ "	3 "	3 $\frac{1}{4}$ "	3 $\frac{5}{8}$ "	16 50
359.....	1 $\frac{3}{4}$ "	$\frac{7}{8}$ "	3 "	3 $\frac{1}{4}$ "	3 $\frac{5}{8}$ "	16 50
360.....	1 $\frac{1}{8}$ "	$\frac{7}{8}$ "	3 "	3 $\frac{1}{4}$ "	3 $\frac{5}{8}$ "	16 50
361.....	2 "	$\frac{7}{8}$ "	3 "	3 $\frac{1}{4}$ "	3 $\frac{5}{8}$ "	16 50
362.....	2 $\frac{1}{8}$ "	$\frac{1}{2}$ "	3 $\frac{1}{4}$ "	3 $\frac{3}{4}$ "	4 $\frac{1}{4}$ "	23 06
363.....	2 $\frac{1}{4}$ "	$\frac{1}{2}$ "	3 $\frac{1}{4}$ "	3 $\frac{3}{4}$ "	4 $\frac{1}{4}$ "	23 00
364.....	2 $\frac{3}{8}$ "	$\frac{1}{2}$ "	3 $\frac{1}{4}$ "	3 $\frac{3}{4}$ "	4 $\frac{1}{4}$ "	23 00
365.....	2 $\frac{1}{2}$ "	$\frac{1}{2}$ "	3 $\frac{1}{4}$ "	3 $\frac{3}{4}$ "	4 $\frac{1}{4}$ "	23 00

NOTE.—The "Market" Split Insulations will not fit the Fletcher Gem Wire-Holder, Insulated Clamps or Insulated Rack Frames.

Railway Telephone Clip.

PORCELAIN INSULATOR.
(PATENTED.)



- No. 610. $\frac{3}{8}$ inch opening.....10c
No. 611. $\frac{1}{4}$ " "10c
No. 612. $\frac{3}{8}$ " "10c

Fletcher's Wiring Pendants.

With Screw.

- No. 3916. 4 inch, 15c
No. 3926. 6 inch, 28c



With Screw Holes.

- No. 3917. 4 inch, 15c
No. 3927. 6 inch, 28c

The Danals Arc Light Support.

(PATENTED.)

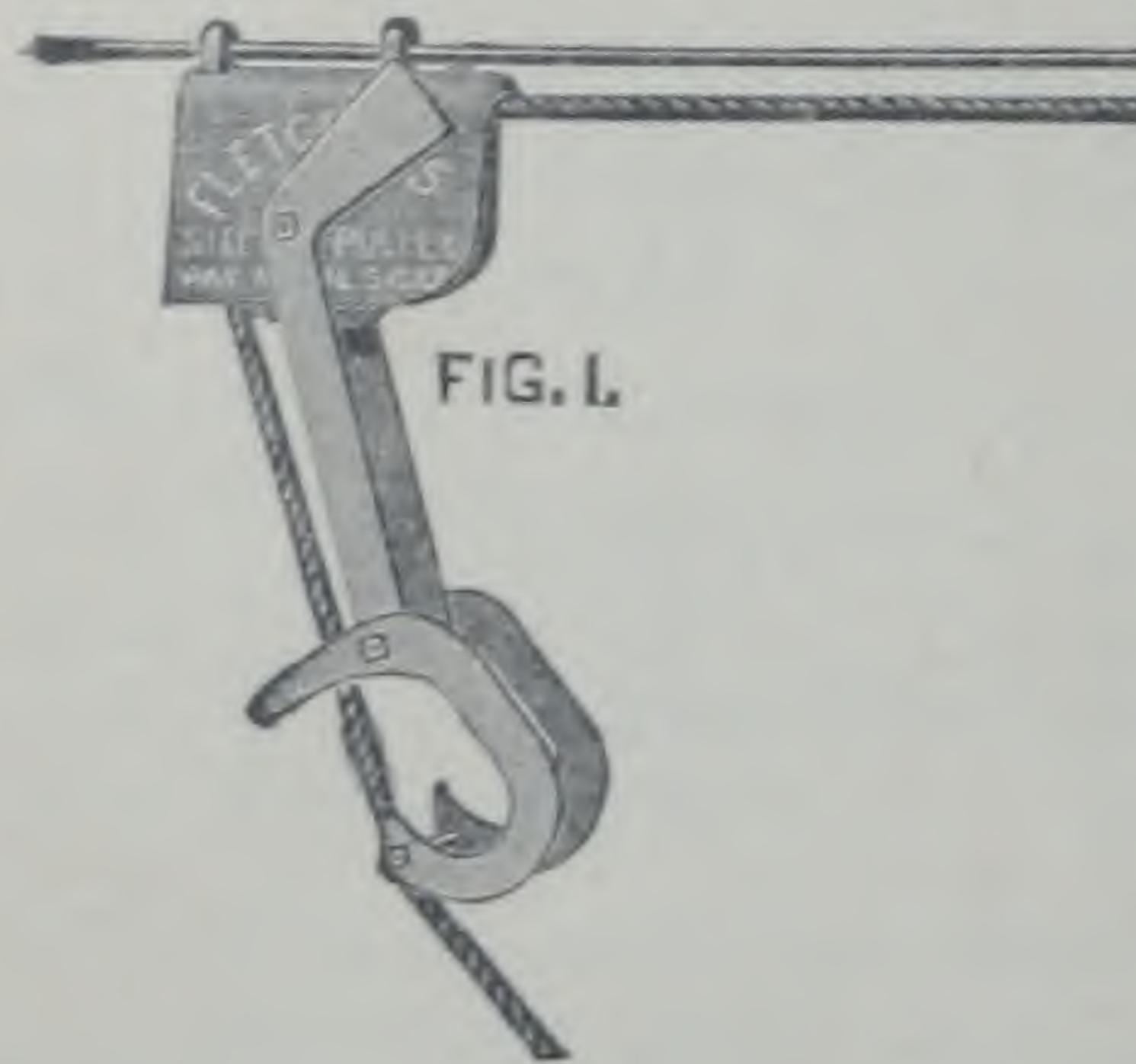


Fig. 1, showing position of Lamp going into suspension.

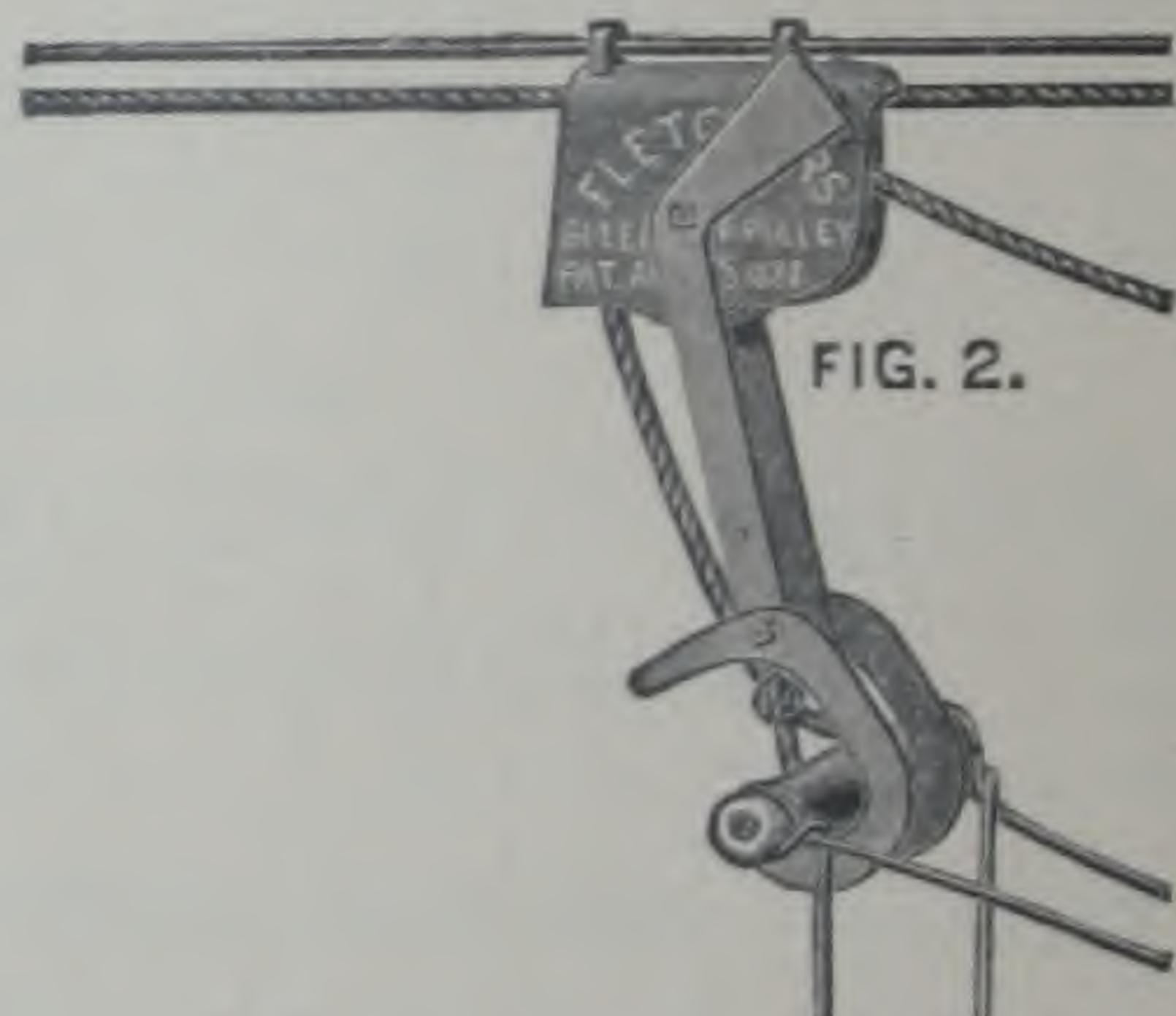
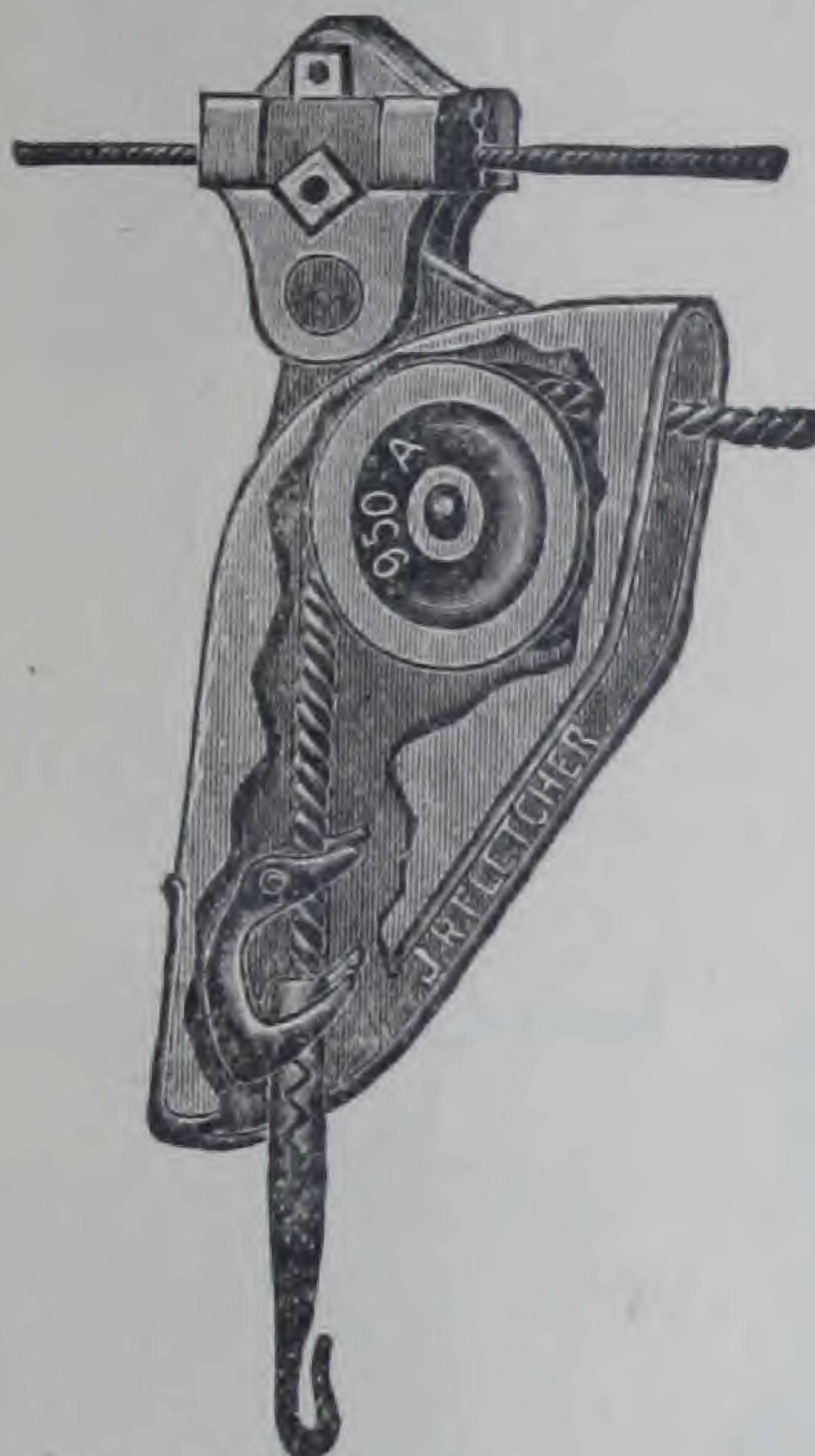


Fig. 2, showing position while Lamp is at rest.

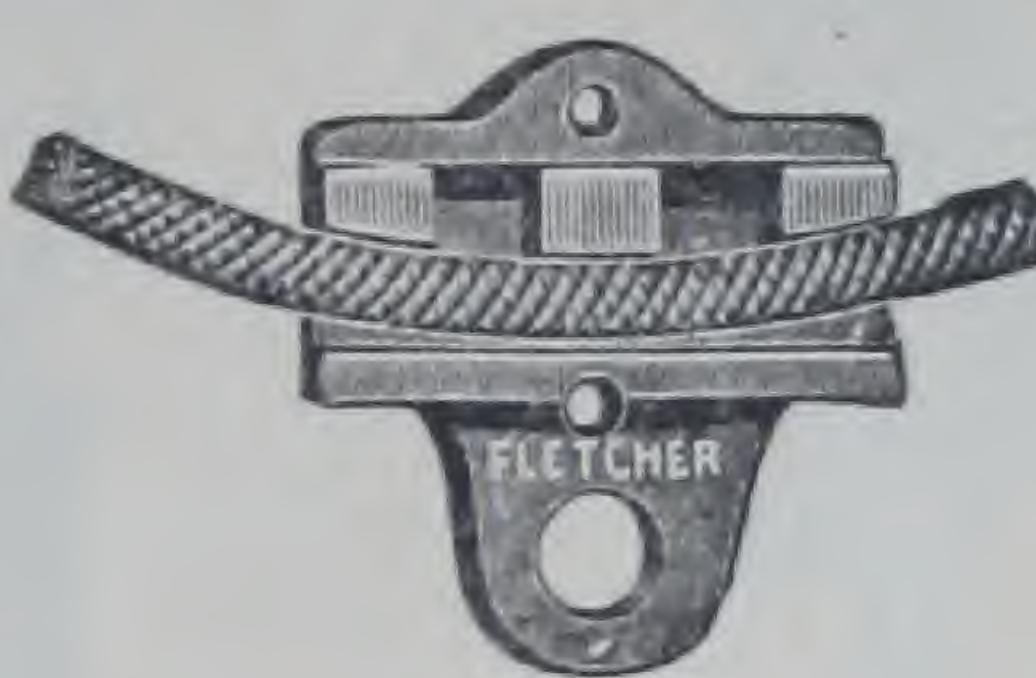
- No. 959. Danals Arc Light Support, including Pulley.....\$1.50.

JOHN R. FLETCHER'S AUTOMATIC SUSPENSION PULLEYS.

The Fletcher Automatic Suspension Pulley is the only device of its kind in which the automatic suspension parts are operated by *gravity*, and is therefore superior to devices of this character which are operated by springs and other unreliable attachments. Pulleys which depend upon grooves cast inside the case work fairly well until the japanning is worn off and the parts become rusty, and after this the "Automatic Suspension" is a thing of the past. The Fletcher Automatic Suspension Pulley is guaranteed to operate perfectly and without interruption, for reason that it is, as heretofore stated, operated by *gravity* only.



No. 950. 90c.



No. 980.



No. 981.

The Cable Clamp shown above is a special patented device which is guaranteed not to cut or champ the cable to which the pulley is suspended.

The No. 980 Rope Fastner Hooks are those which are used with "No. 950."

No. 981 Rope Fastner Bands are those which are used with the three styles insulated hooks shown on the next page.

No. 961 is to be attached to pipes when used with Mast-Arms.

No. 963 has top-clamps for attaching the pulleys to ceilings.

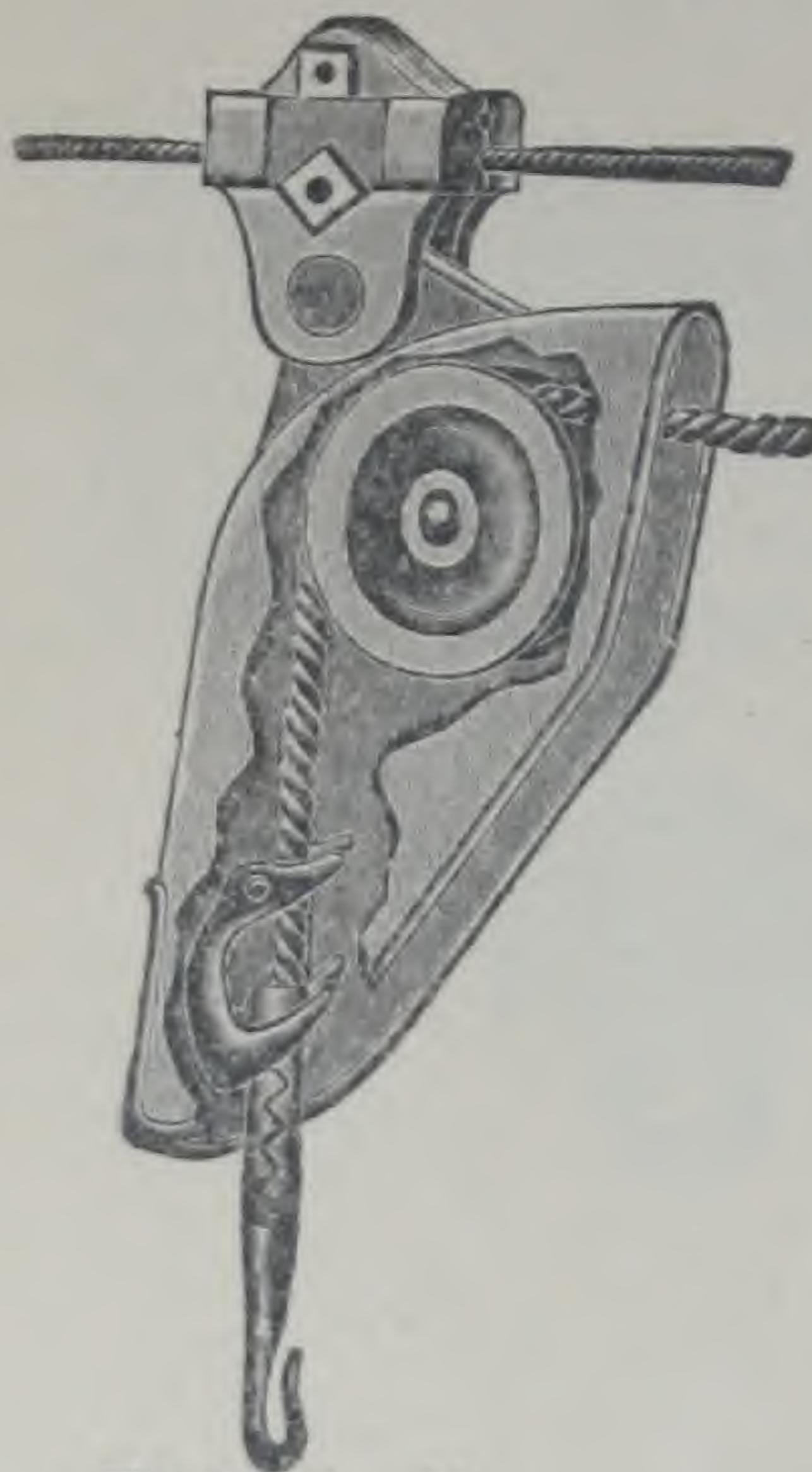
No. 951 is our Traveling Suspension Pulley, which enables the trimmer to remove the lamp from the center of the street to the pole, lower it for trimming, and pull it into suspension again.

No. 942 is the pulley used in connection with No. 951. No. 943 is a Riveted Swivel Pole Pulley, which is suitable for use in connection with all the Automatic Suspension Pulleys made by us.

For description in detail, see the several following pages.

Fletcher's Automatic Suspension Pulleys.

(PATENTED.)

Takes $\frac{1}{2}$ inch rope or $\frac{1}{4}$ inch flexible iron cord.

No. 950 A. 90c.
With plain hook.



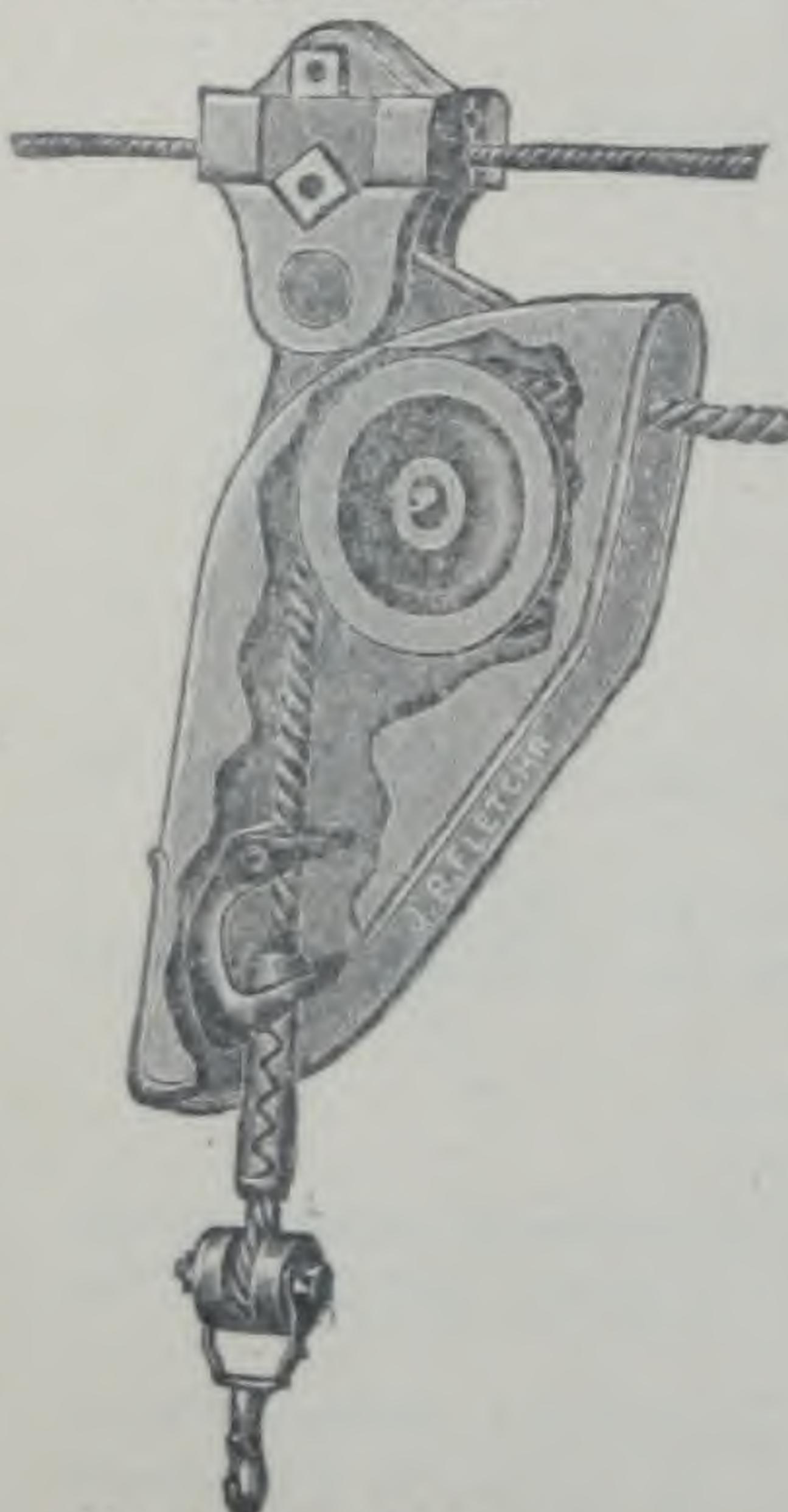
No. 949. Cable Clamp. 9c
(Including bolts and nuts.)
This patented device is sent with all Fletcher's Automatic Suspension Pulleys without extra charge.



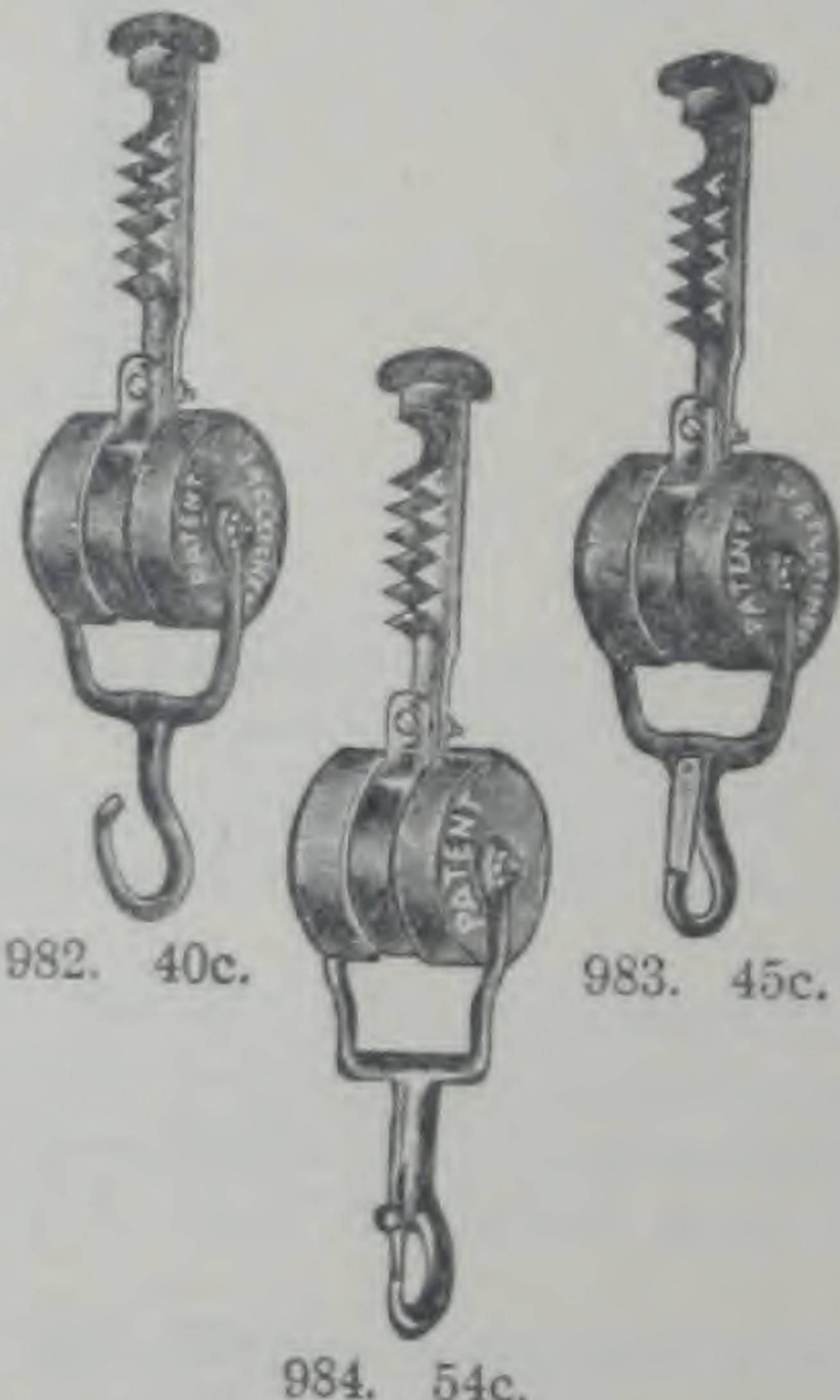
No. 950 B. \$1.00.
With insulated hook.



980. 12c. 981. 12c.

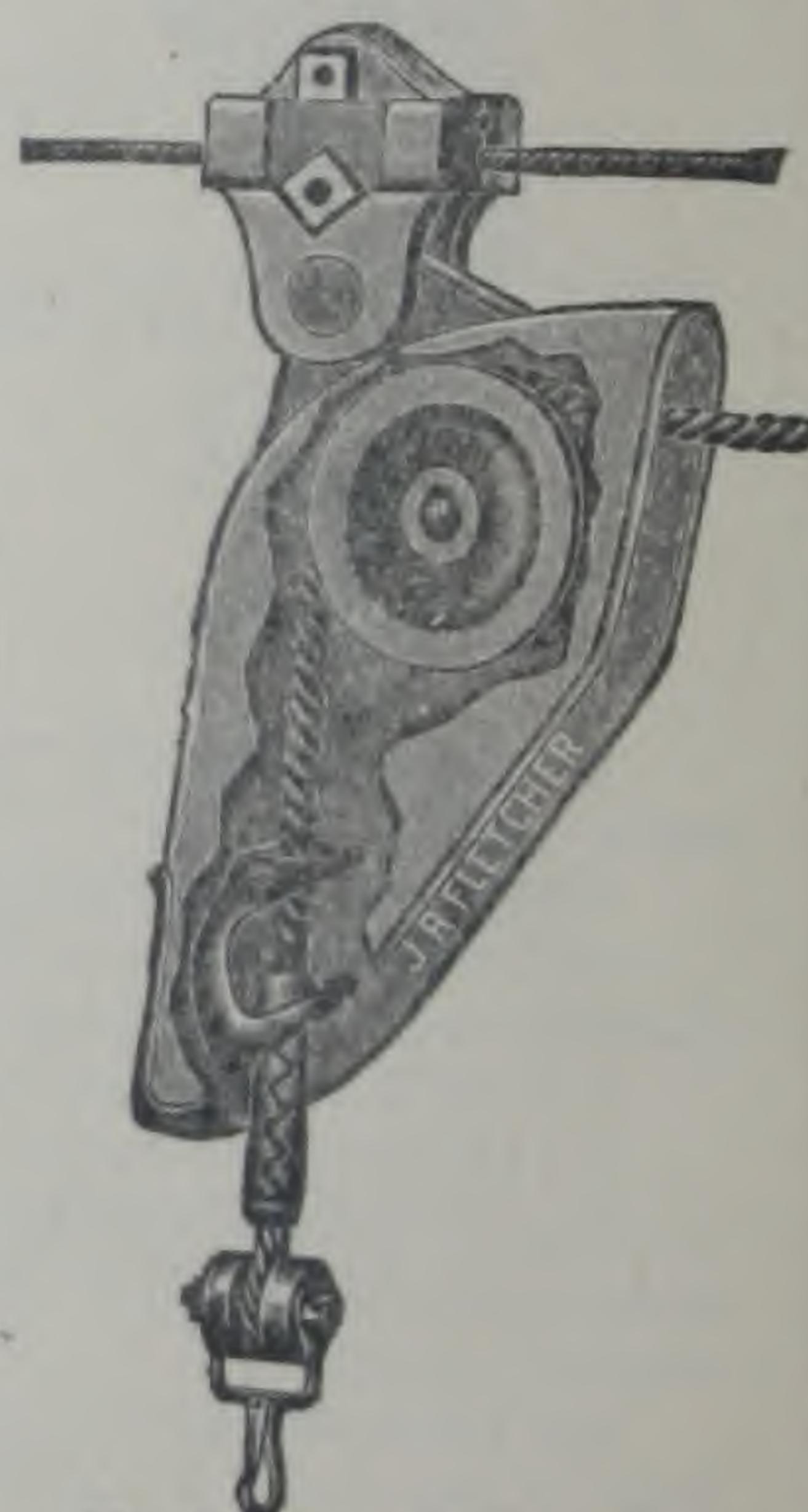


No. 950 C. \$1.20.
With insulated snap.



982. 40c. 983. 45c.

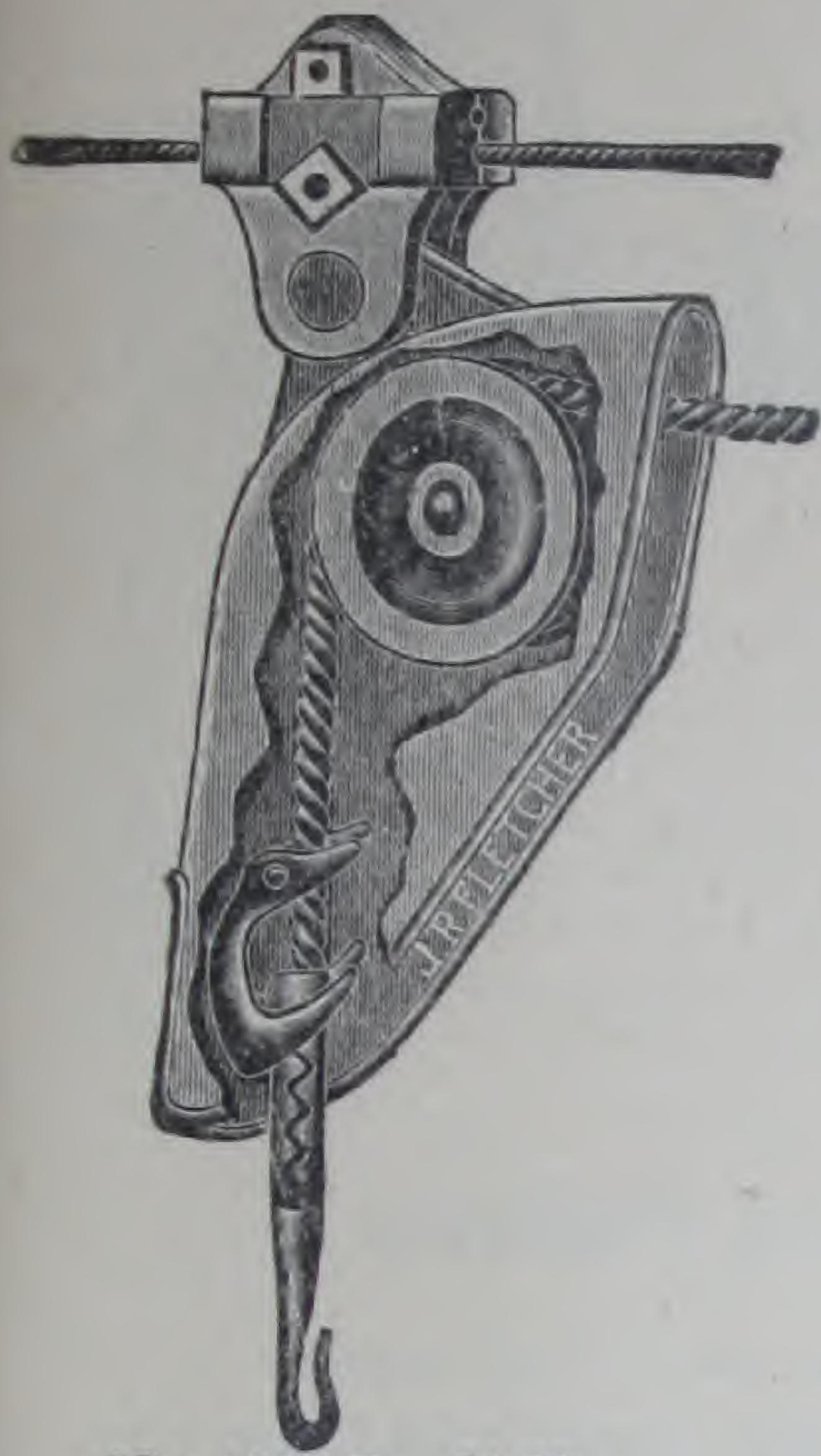
984. 54c.



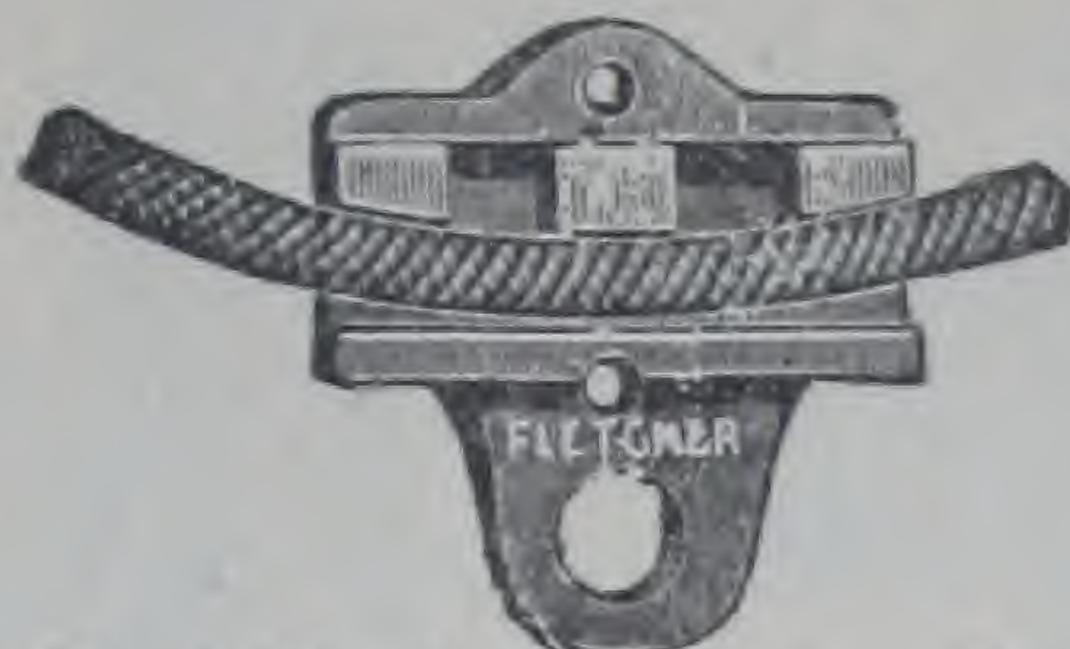
No. 950 D. \$1.10.
With insulated spring hook.

Fletcher's Jumbo Suspension Pulleys.

(PATENTED.)

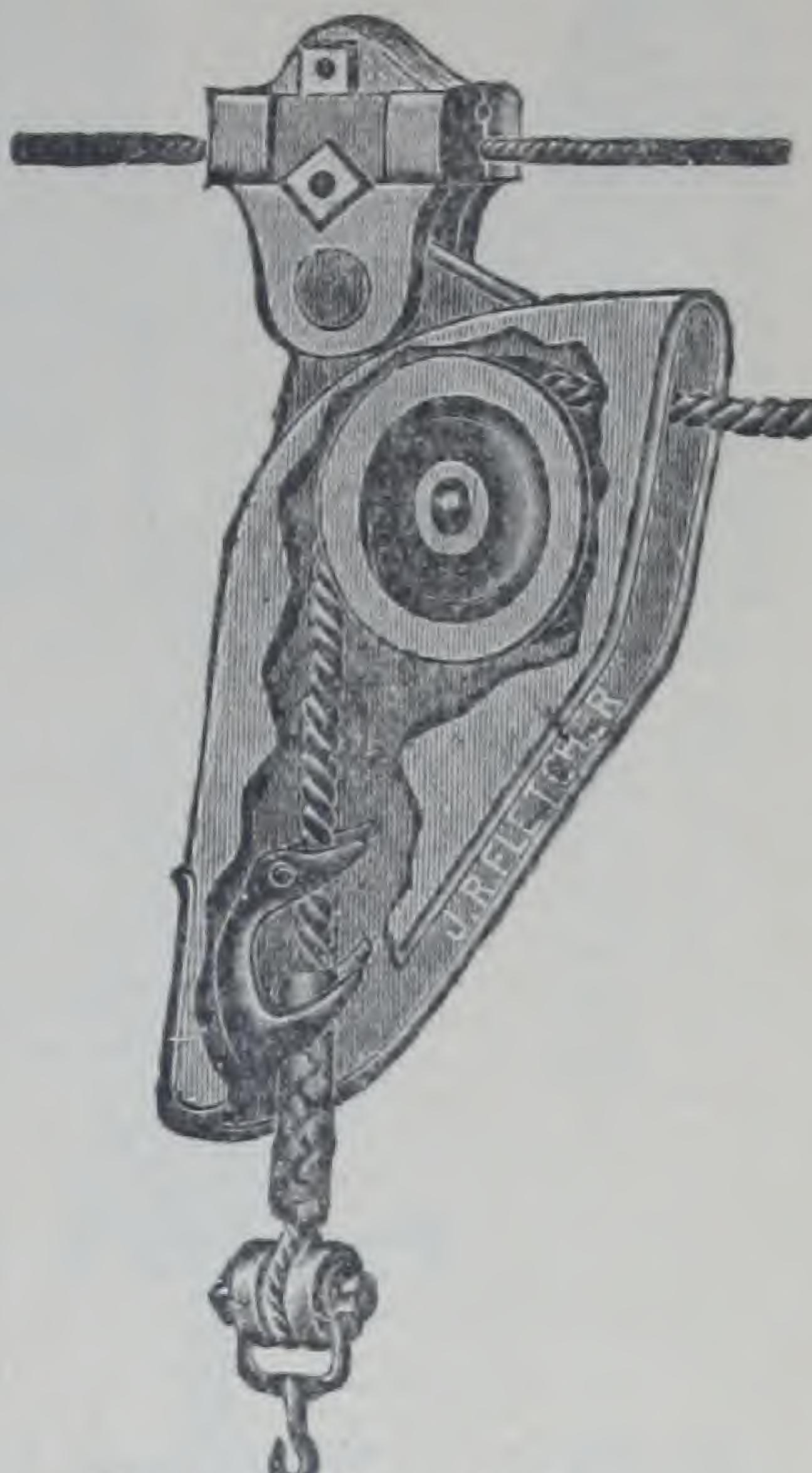
Takes $\frac{3}{4}$ inch rope.

No. 1950 E. \$1.20.
With plain hook.

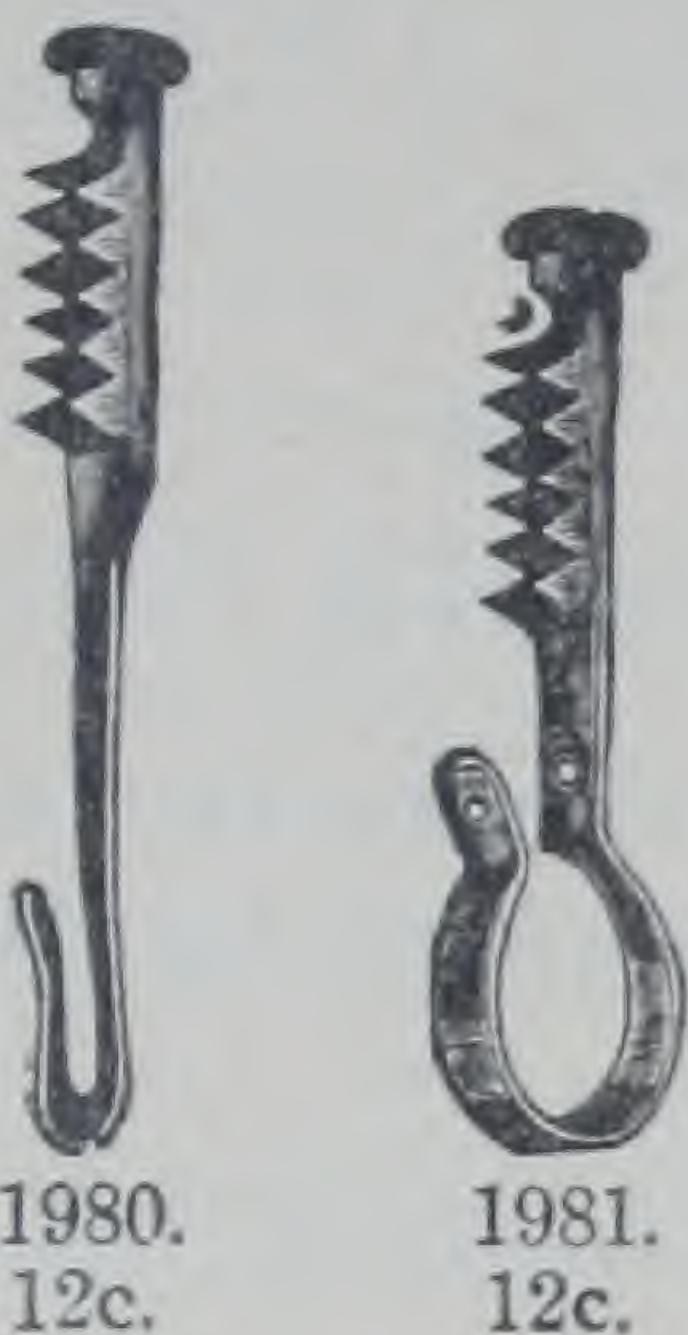


No. 949. Cable Clamp, 9c
(Including bolts and nuts.)

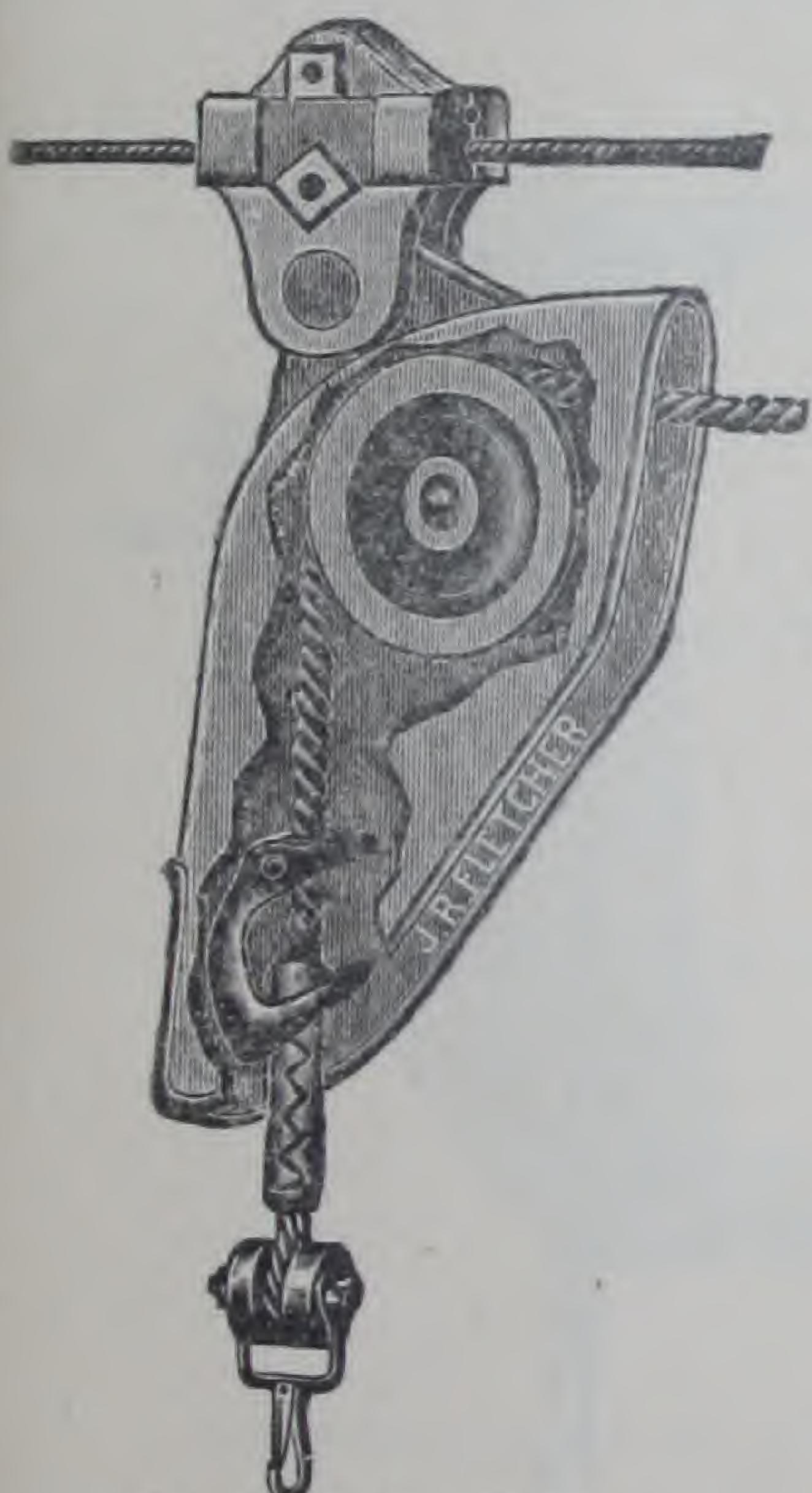
This patented device is sent with all Fletcher's Automatic Suspension Pulleys without extra charge.



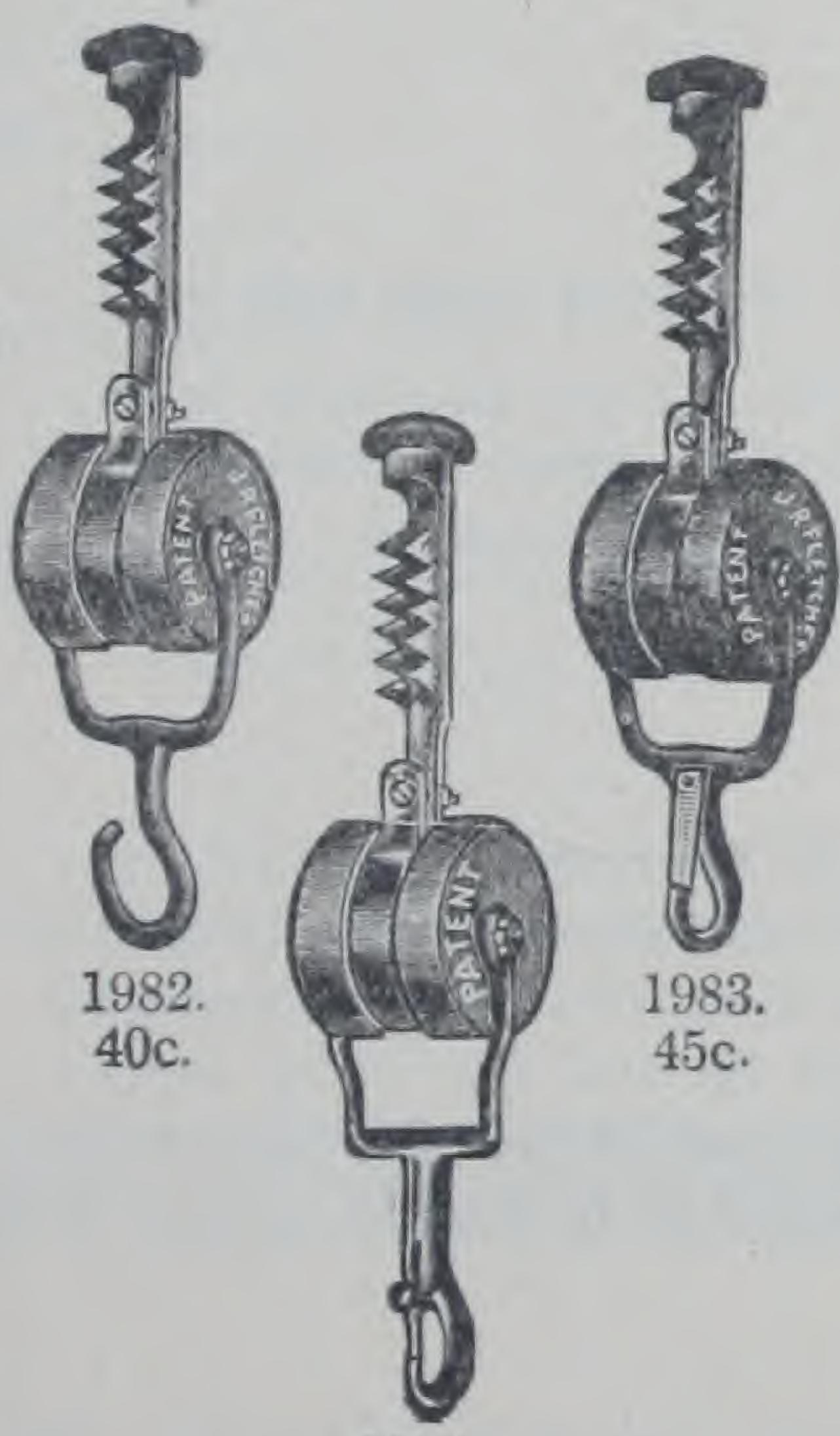
No. 1950 F. \$1.50.
With insulated hook.



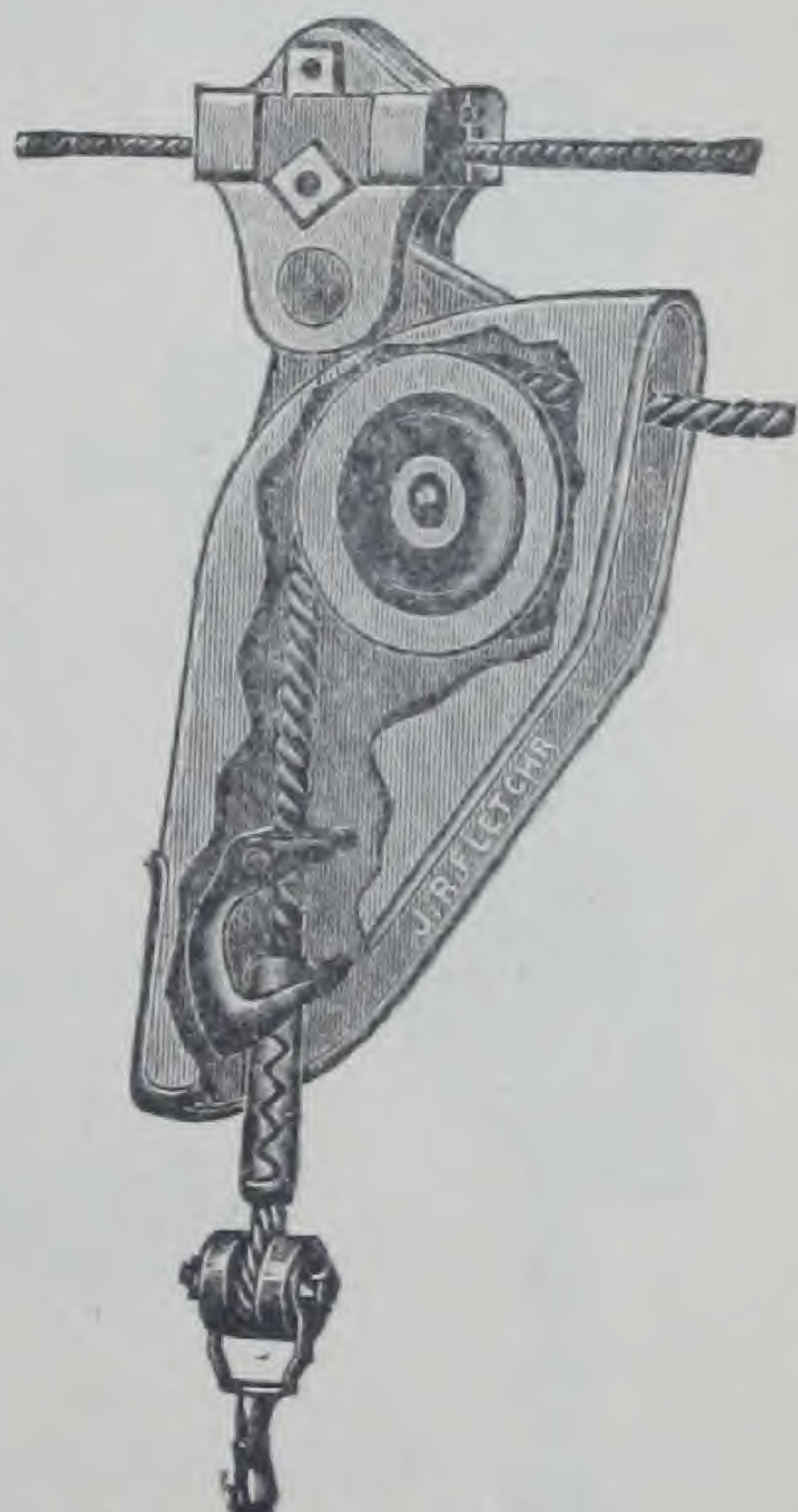
1980. 12c.
1981. 12c.



No. 1950 G. \$1.55.
With Insulated Spring Hook.

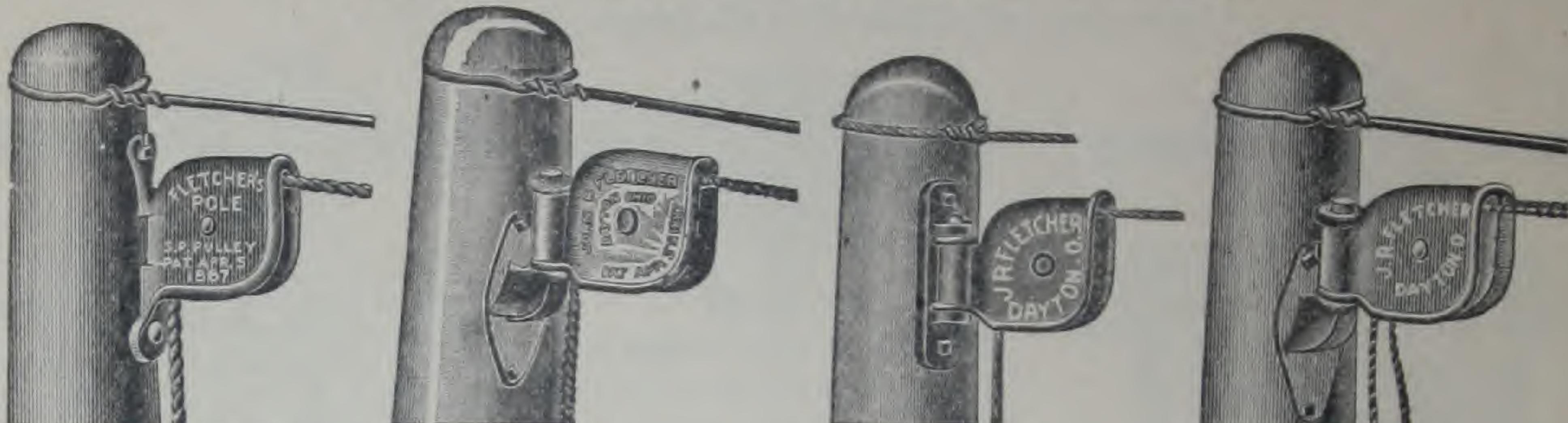


1982. 40c.
1983. 45c.
1984. 54c.
1985.



No. 1950 H. \$1.60.
With insulated snap.

Fletcher's Sleet-Proof Pole Pulleys.



Nos. 929, 939, 938.

Nos. 940, 941.

No. 943.

No. 942.

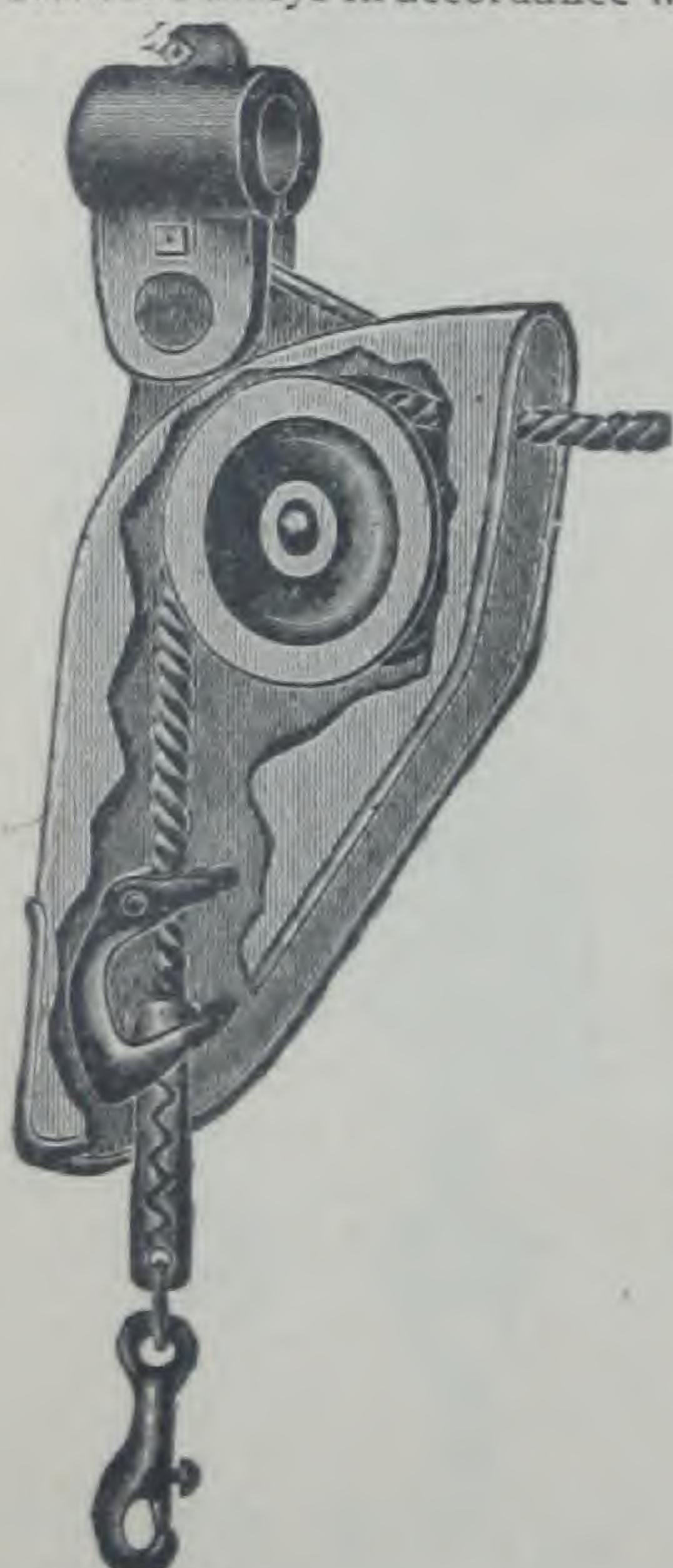
No. 929.	Fletcher's Midget Pole Pulley, for $\frac{1}{4}$ inch rope.....	each, 30c
" 939.	" Medium Pole Pulley, for $\frac{1}{2}$ inch rope.....	" 42c
" 938.	" Jumbo Pole Pulley, for 1 inch rope.....	" 90c
" 940.	" Swivel Pole Pulley, for $\frac{1}{2}$ inch rope	" 42c
" 941.	" Swivel Pole Pulley, for 1 inch rope	" \$1.00
" 942.	" Swivel Pole Pulley, (2 wheels).....	" 60c
" 943.	" Riveted Swivel Pole Pulley.....	" 40c

Fletcher's Automatic Suspension Pulleys. (PATENTED.)

With Clamps for Gas Pipe.

No. 961-1.	With Clamp to fit 1 inch (inside dia.), 1.315 inch (outside dia.), gas pipe.	
" 961-1 $\frac{1}{4}$.	" " 1 $\frac{1}{4}$ " " 1.66 " "	
" 961-1 $\frac{1}{2}$.	" " 1 $\frac{1}{2}$ " " 1.90 " "	

NOTE.—Measurements of iron pipes are always given by inside diameters. Please note this and order No. 961 Pulleys in accordance with our measurements above given.

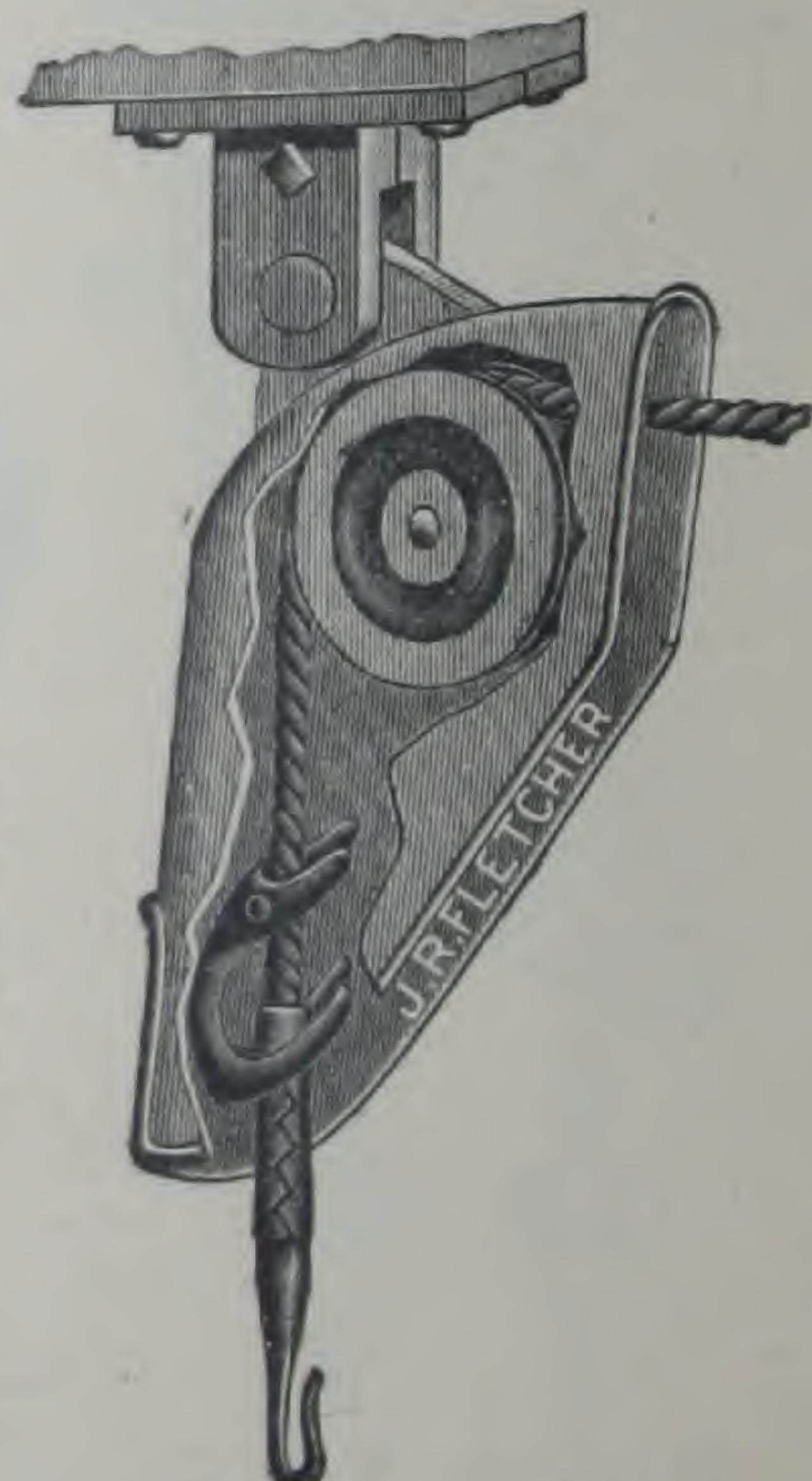


No. 961.

Overhead Clamp Pulleys.

No. 963 can be placed in any position where overhead suspension is required.

N. B.—Nos. 961 and 963 Suspension Pulleys are same price as those illustrated on pages 14 and 15, and insulating hooks Nos. 982, 983 and 984 will be furnished if desired.

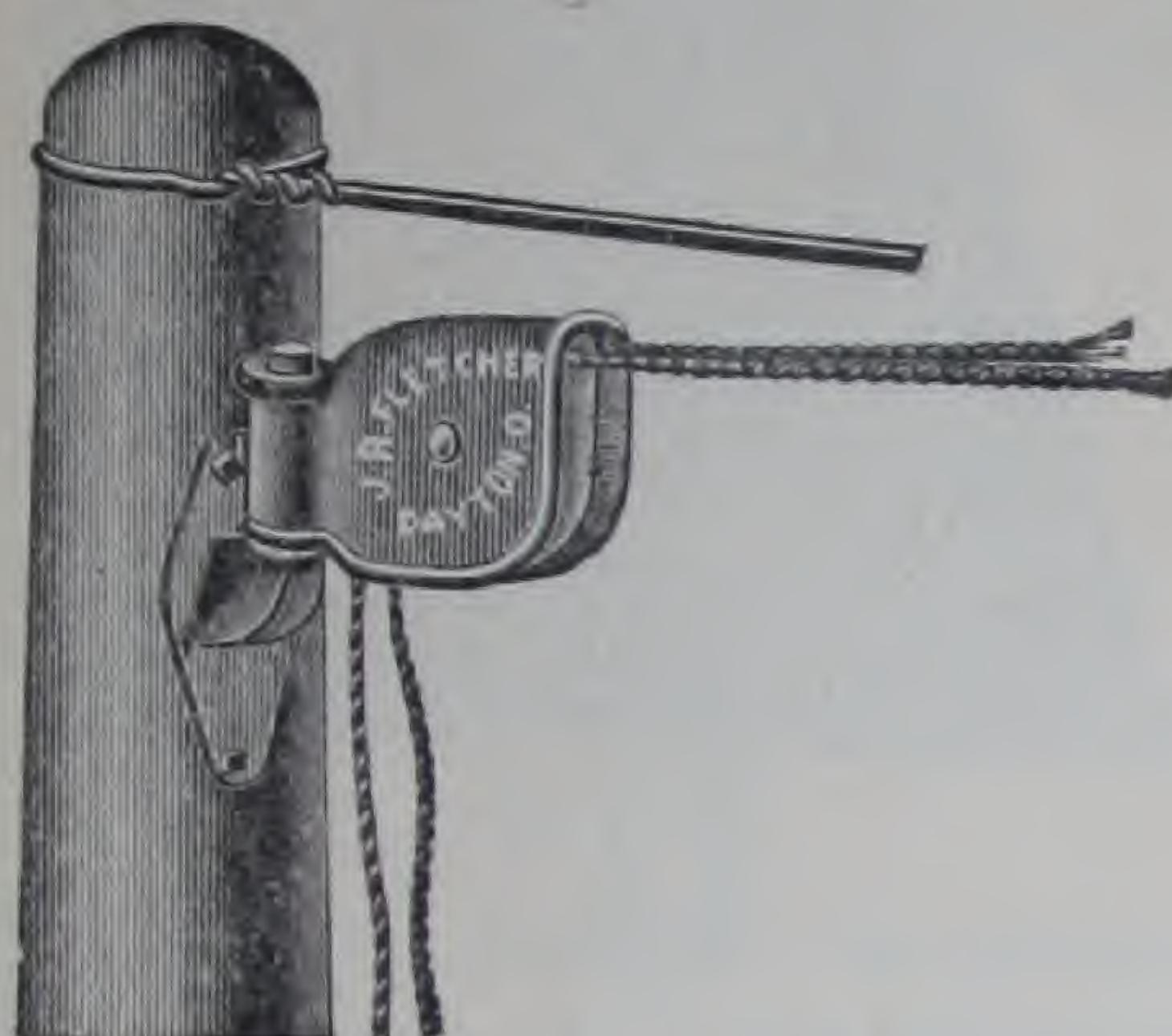


No. 963.

Fletcher's Traveling Suspension Pulleys.

With Automatic Sustaining Device.

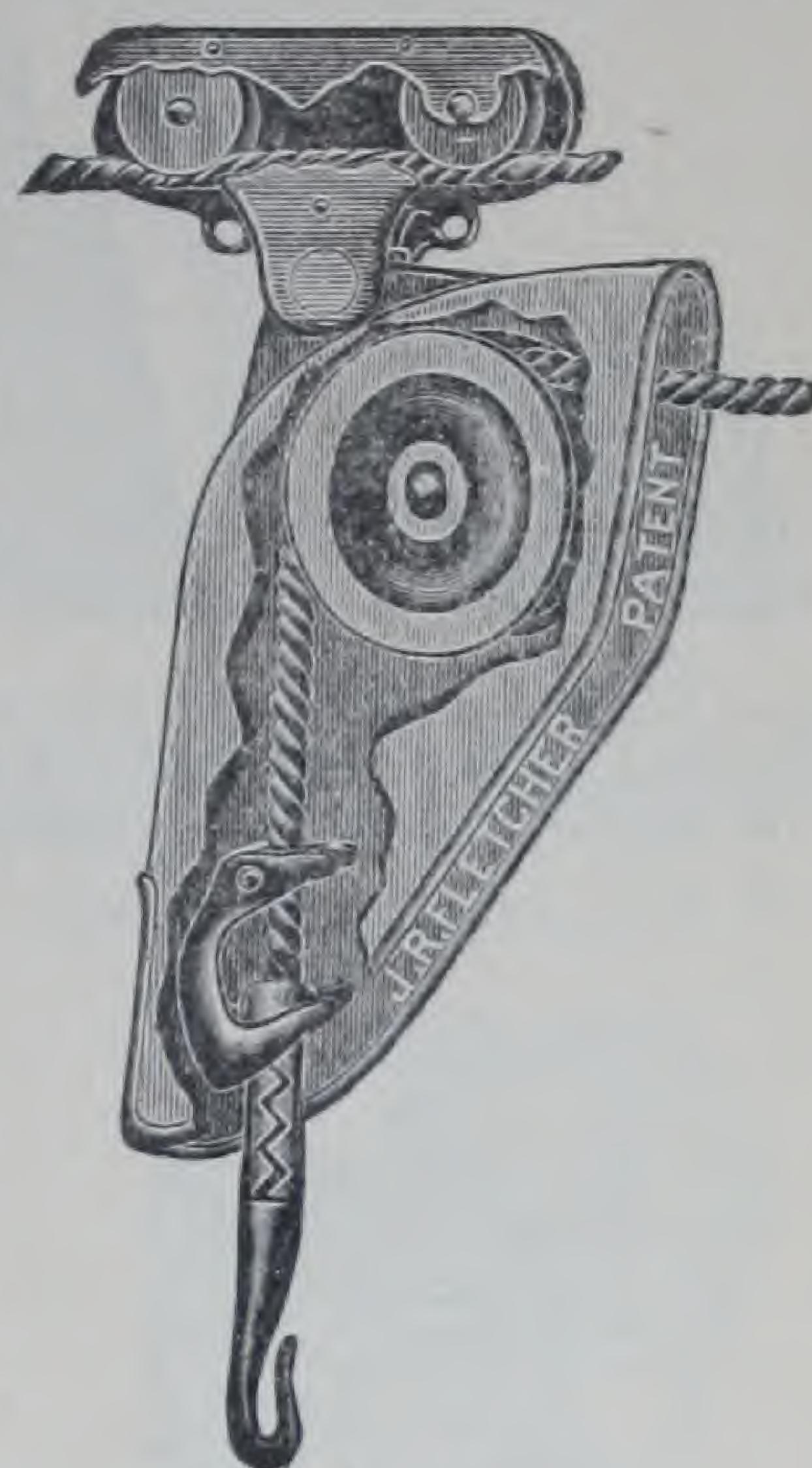
(PATENTED.)



The prices named below include a double wheel pole pulley and automatic traveling pulley as shown, and a small center pulley, which makes a complete set.



Draws lamp from center of street and lowers it near pole. Very useful where lamps are suspended over trolley wires.



No. 951.

Set No. 951 A. With Malleable Hook,	- - - - -	\$1 50
Set No. 951 B. With Insulating Hook,	- - - - -	1 80
Set No. 951 C. With Insulating Snap,	- - - - -	2 00
Set No. 951 D. With Insulating Spring-Hook	- - - - -	1 90

Please refer to page 14 for illustration of Insulating Hook,
Spring-Hook and Snap.

Galvanized Mast-Arm Rope.



We carry a stock of $\frac{1}{4}$ inch Galvanized Mast-Arm Rope in 500 and 1000 feet coils. To save waste where a large quantity is required, we can ship in any length coil or sizes which may be required, and at the lowest market price. Write us for quotations.

Fletcher's Sleet-Proof Pulleys.

(PATENTED.)



No. 954.



No. 953.



No. 955.

- No. 954. "Midget" Pulley, takes $\frac{1}{4}$ inch rope, for incandescent lamps only....each, 60c
 " 953. Medium Pulley, takes $\frac{1}{2}$ inch rope or $\frac{1}{4}$ inch flexible iron cord..... " 85c
 " 955. Jumbo Pulley, takes 1 inch rope. " \$1.20



No. 956. 2 Wheels.



No. 957.

- No. 956. Duplex Pulley, takes $\frac{1}{2}$ inch rope..... each, \$1.20
 " 957. Twin Pulley, takes $\frac{1}{2}$ inch rope..... " 1.00

Fletcher's "Sure Grip" Pulleys.

(PATENTED.)



FIG. 1—Shows position
of cord when lamp is be-
ing drawn into suspension.

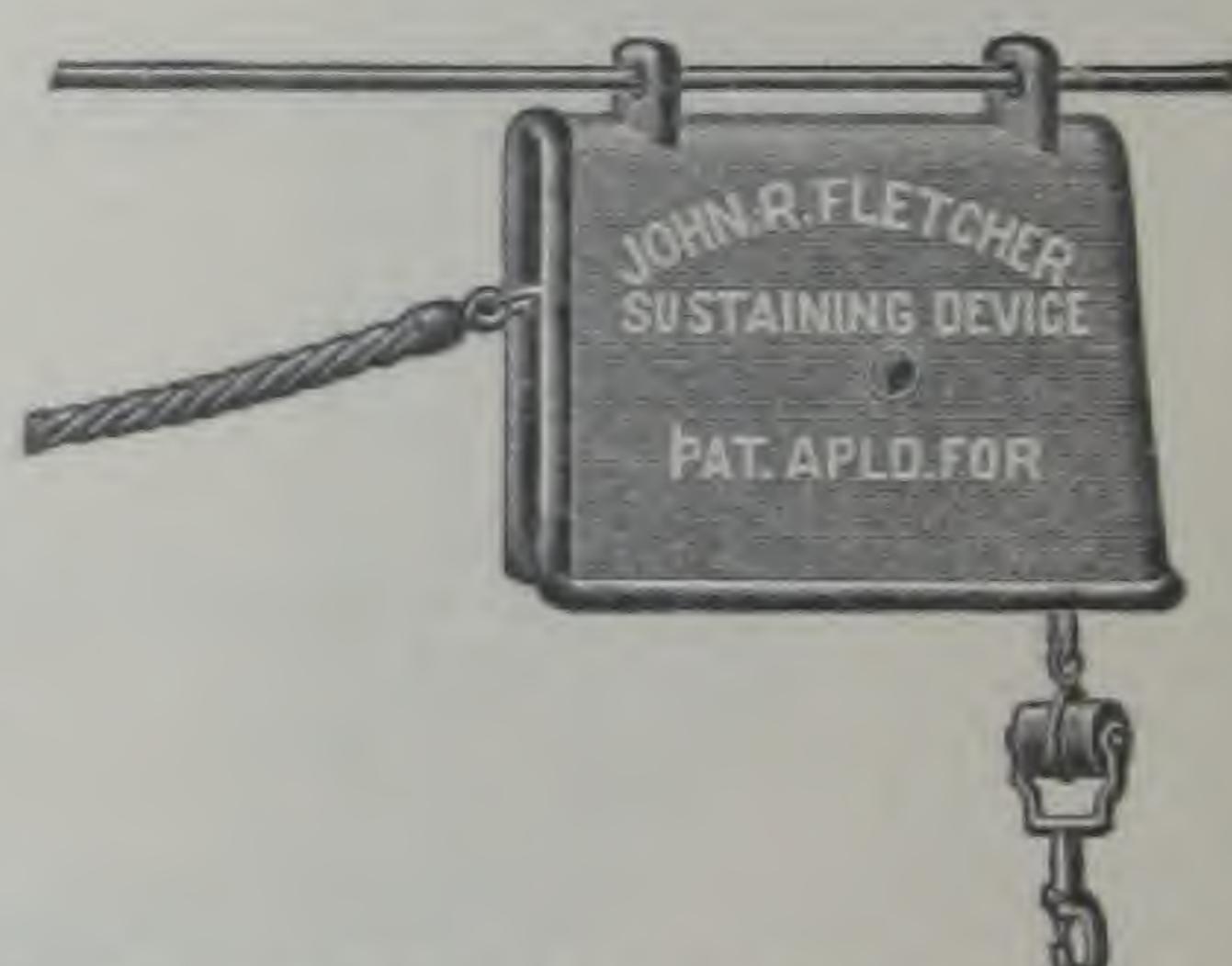
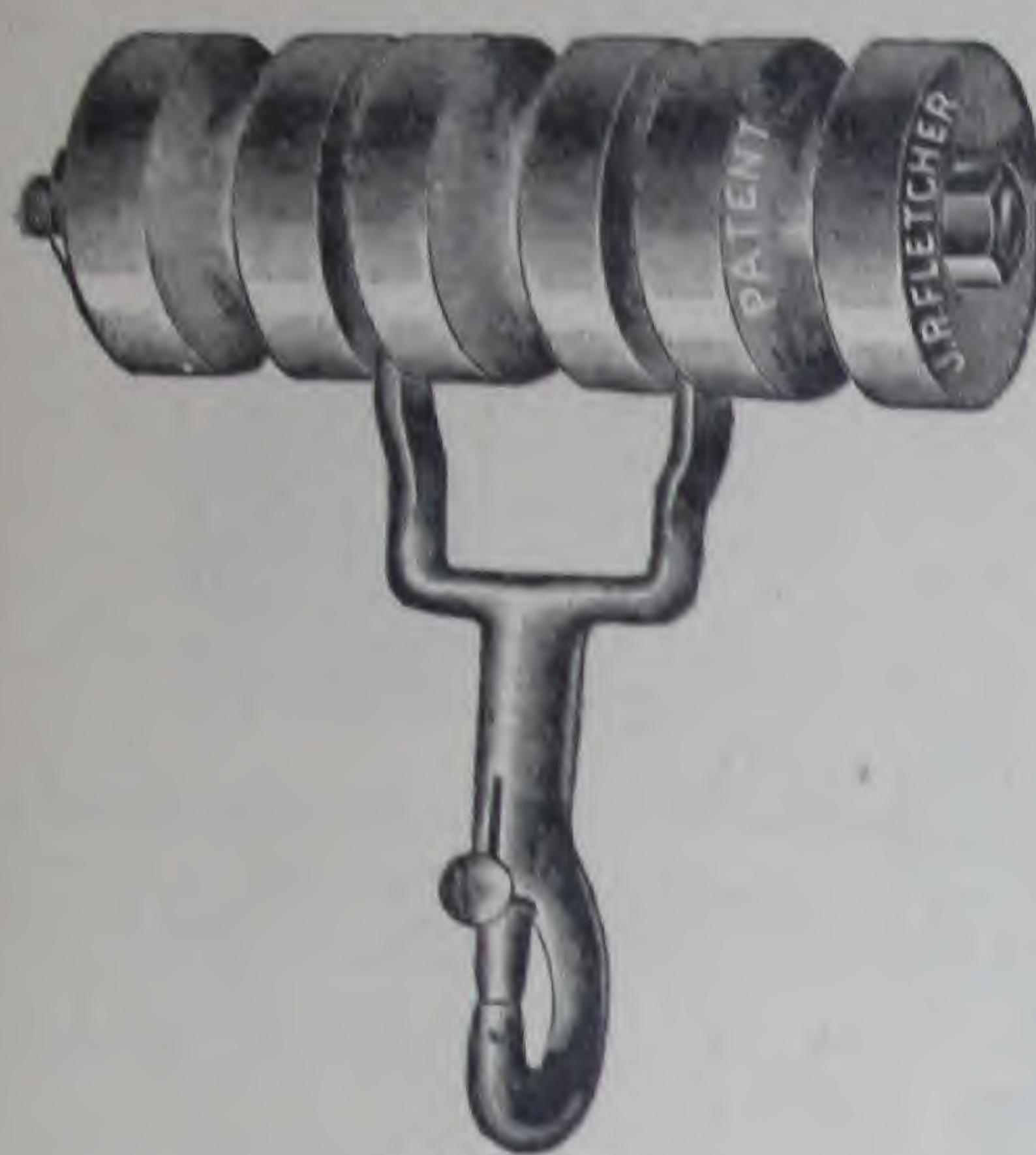
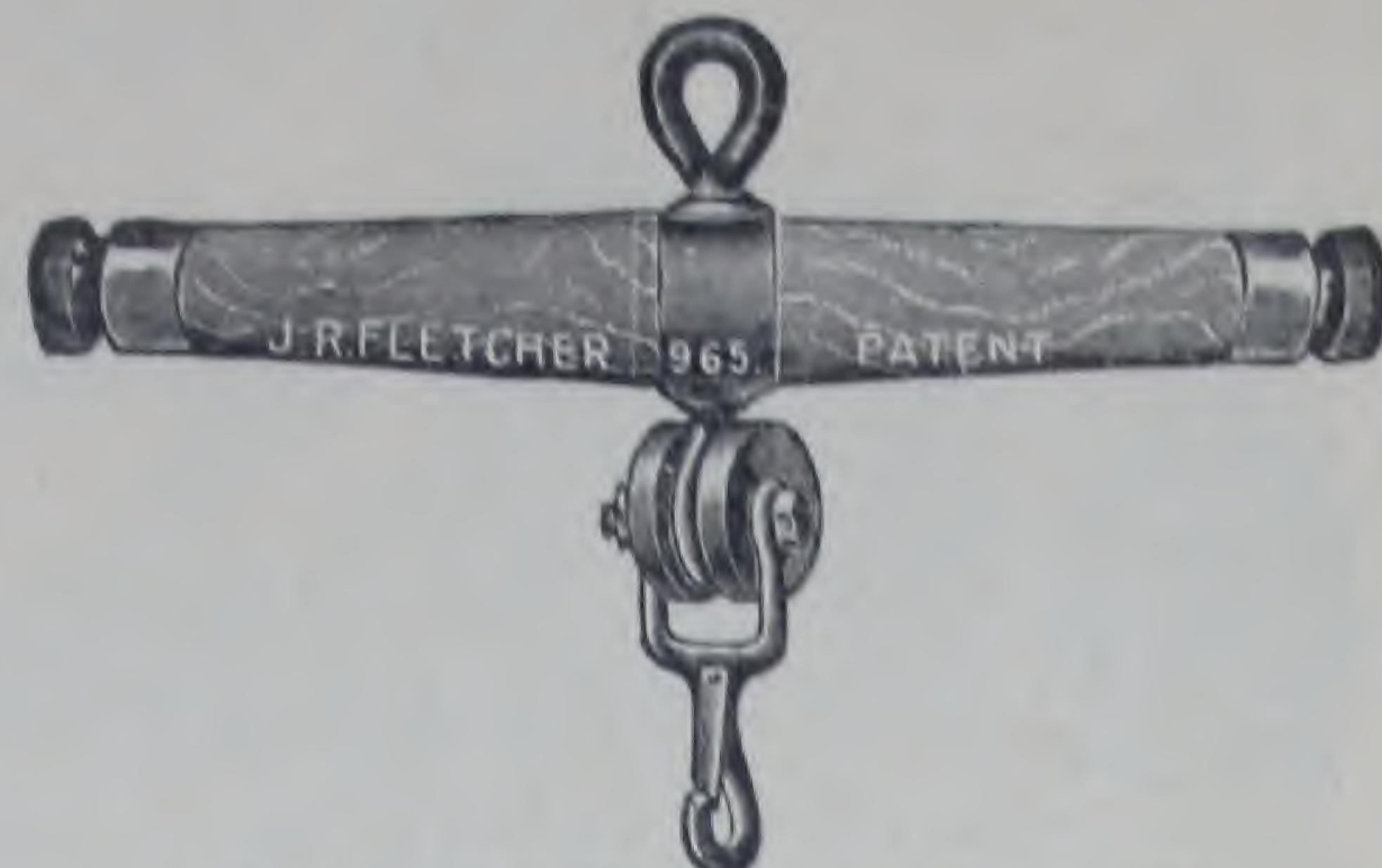


FIG. 2—Shows position of cord when lamp is in suspen-
sion, with Fletcher's Insulating Lamp Hanger attached.
Lamp Hanger is not a requisite part of the arrangement,
and is only furnished when especially ordered.

- No. 900. Fletcher's "Sure Grip" Sleet-Proof Pulley, takes $\frac{1}{2}$ inch rope.... .each, \$1.60
 (Includes everything necessary except rope.)



No. 972.
Three Knobs. With Snap, 47c.



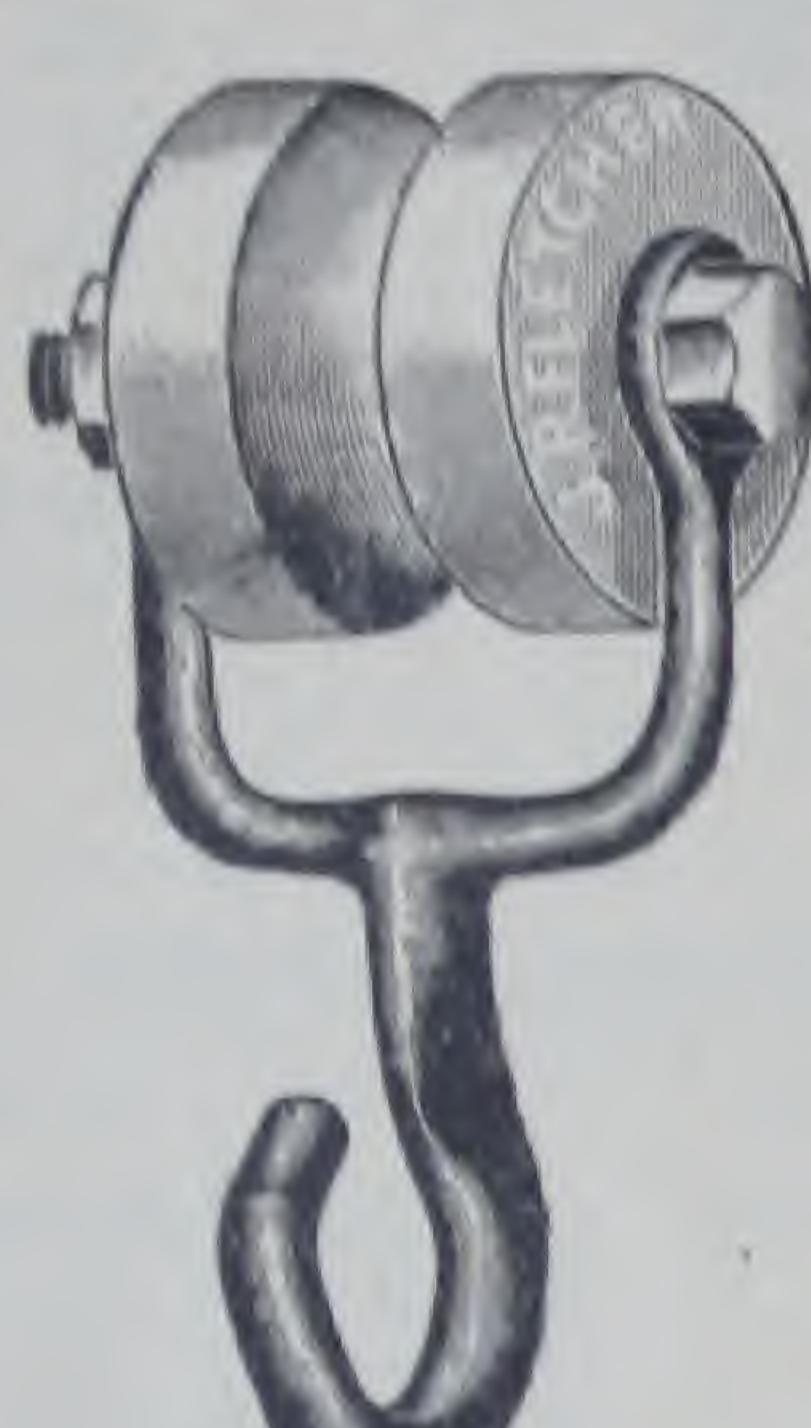
No. 965. Insulated Cross-Arm. 60c.



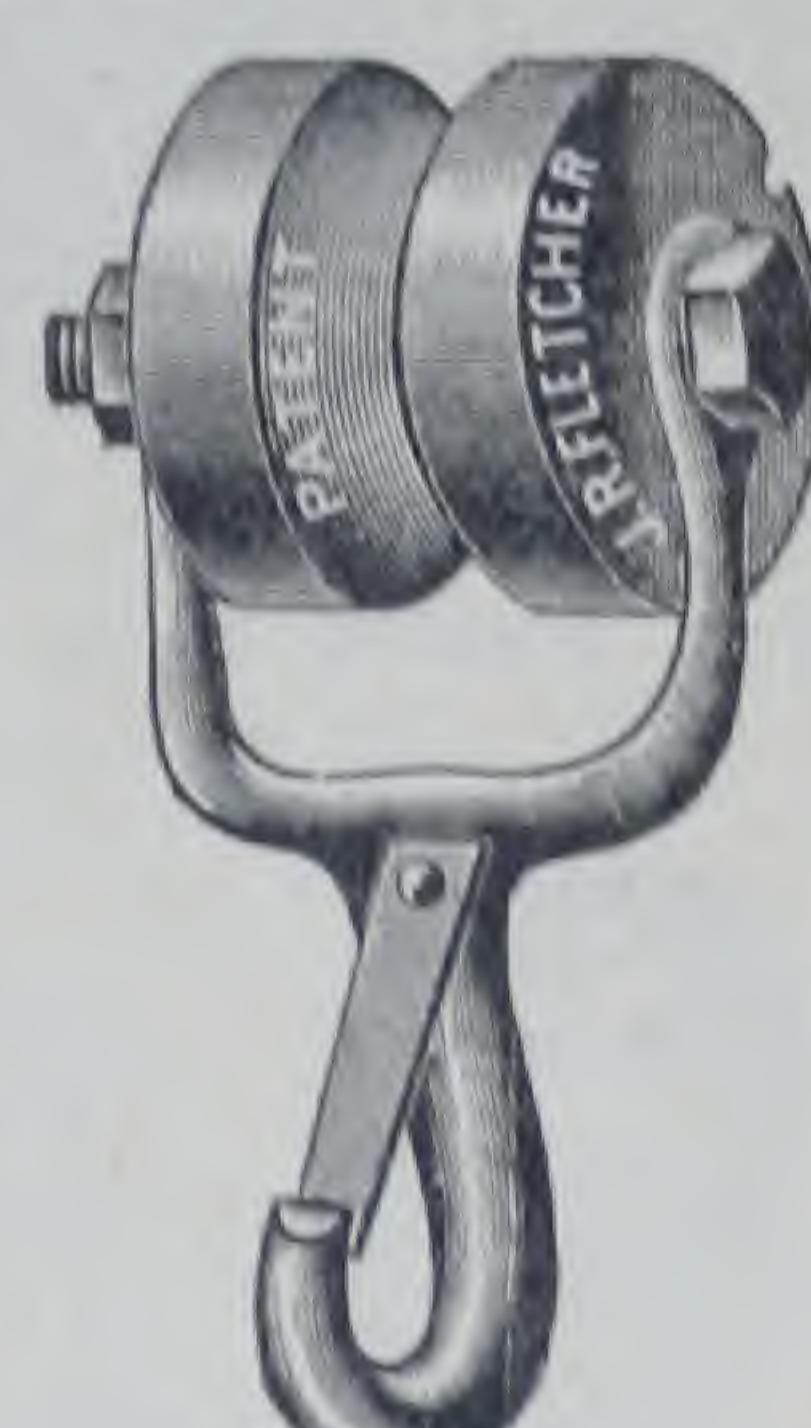
No. 966. Plain Cross-Arm. 25c.



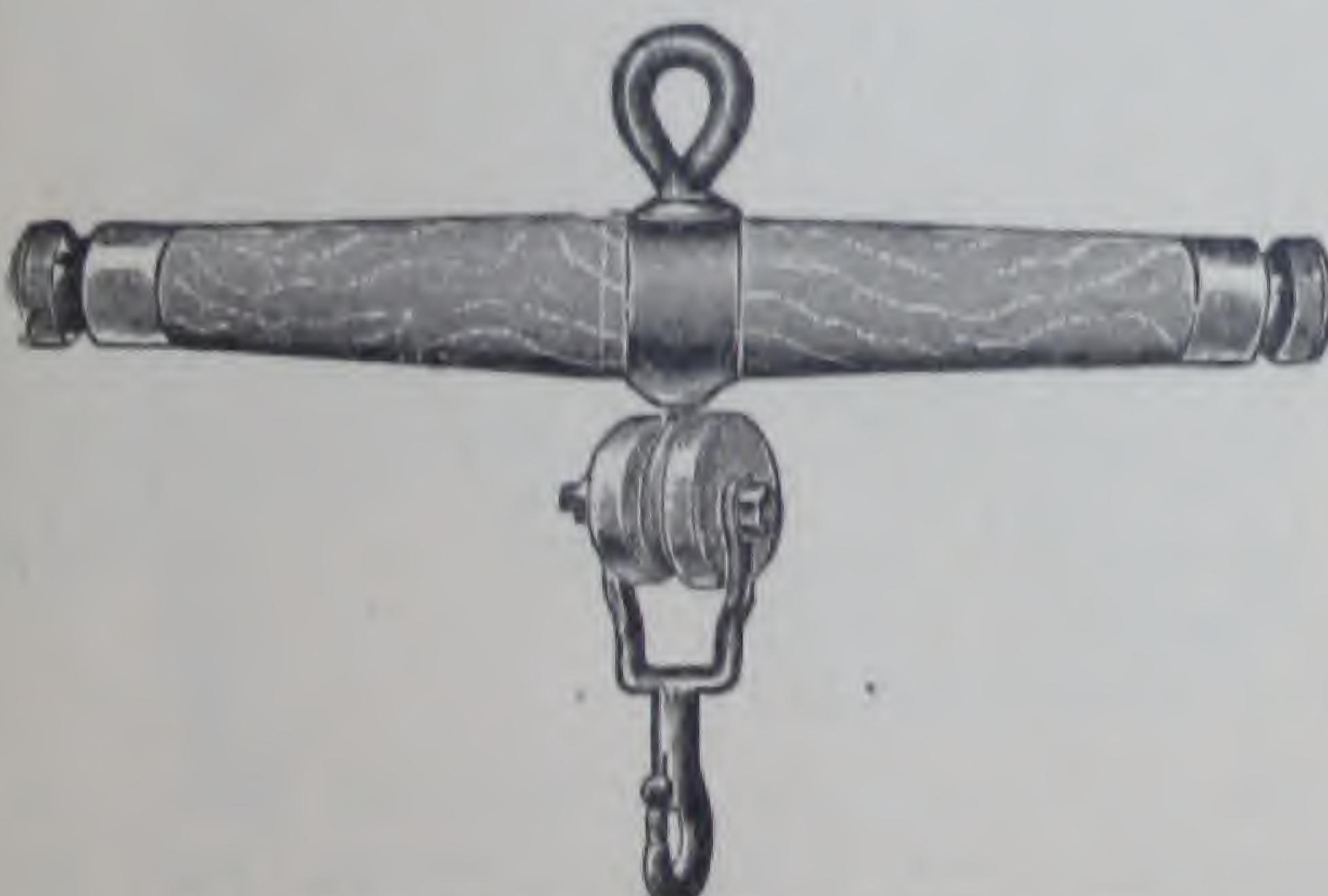
No. 952.
Insulating Lamp Hanger.
Price, 42c.



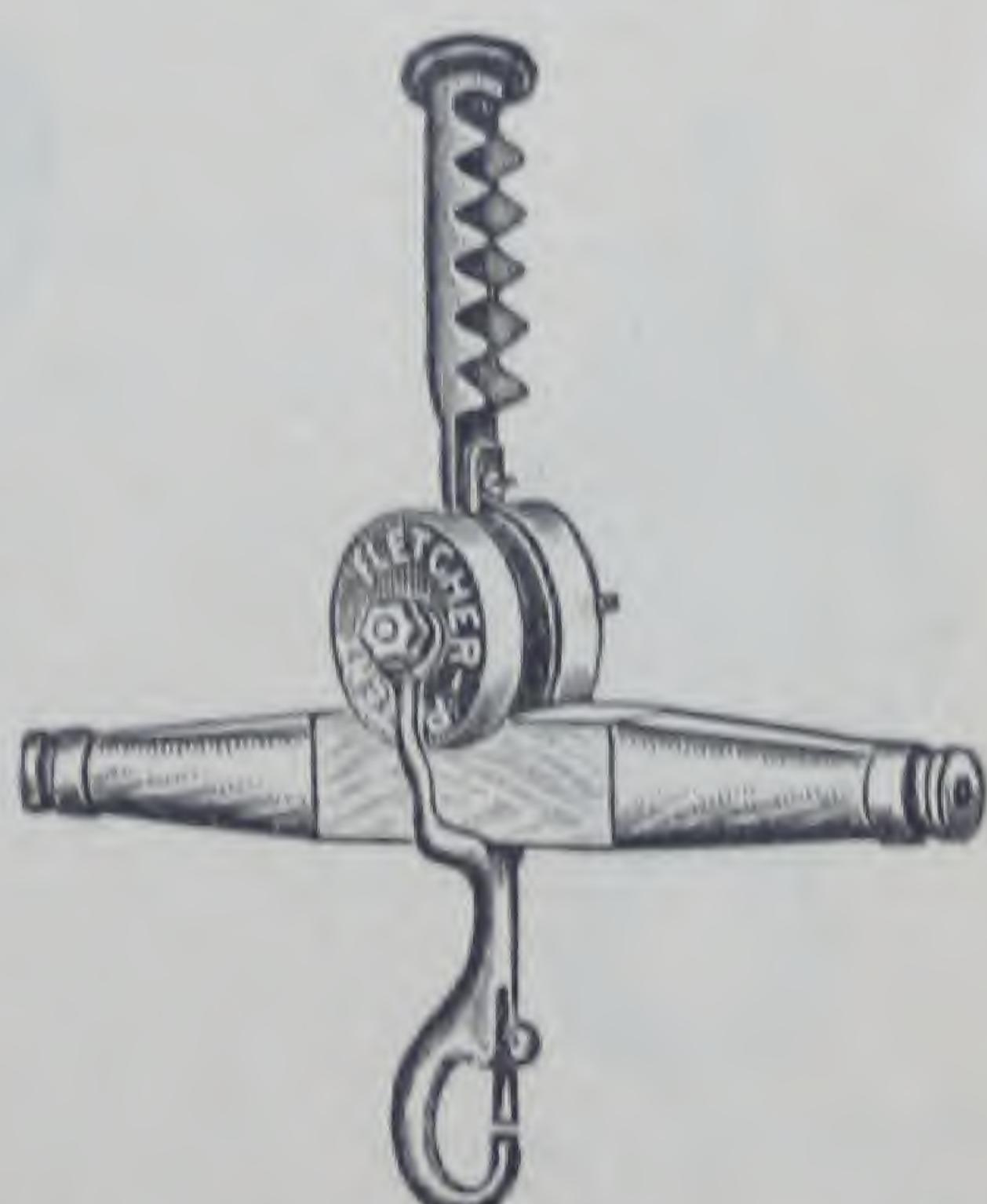
No. 1052.
Insulating Lamp Hook.
No. 1052. One Knob, 23c
No. 1051. Three " 28c



No. 970.
No. 970. One Knob, 33c
No. 974. Three " 38c



No. 964. Insulated Cross-Arm. 70c.



No. 971. Combination Cross-Arm, 50c

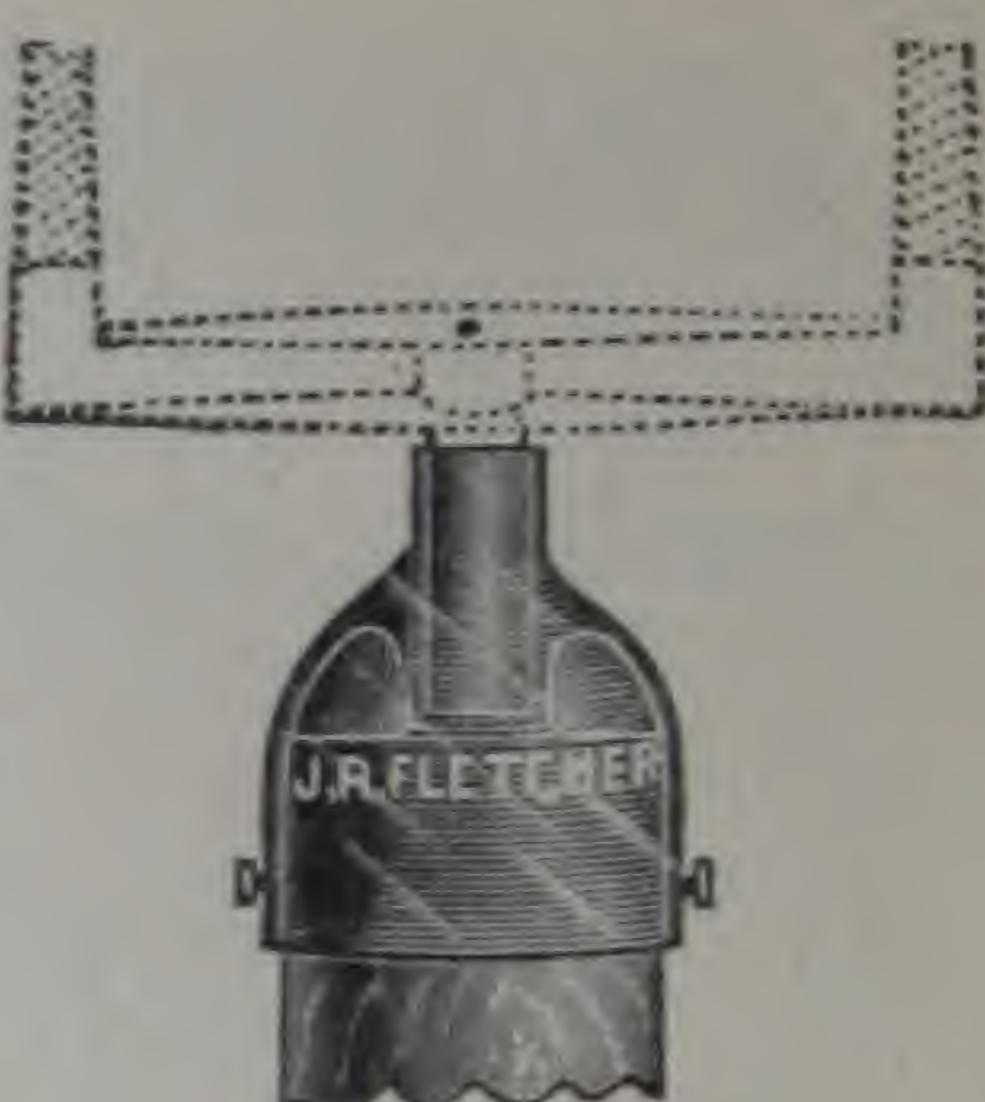


Fletcher Iron Pole Tops.

For Wood Poles.

No. 310.....for 4 inch pole.
" 311.....for 5 " "
" 312.....for 6 " "

No. 313.....for 7 inch pole.
" 314.....for 8 " "
" 315.....for 9 " "



For Iron Poles.

To fit the following outside diameters.

No. 316for 2.375 inch Pole.
" 317for 2.875 " "
" 318.....for 3.5 " "
" 319.....for 4 " "
" 320.....for 4.5 " "

No. 321.for 5 inch Pole.
" 322.....for 5.563 " "
" 323.....for 6.625 " "
" 324for 7.625 " "

Please write us stating number of Pole Tops desired, and we will quote you the lowest possible price.



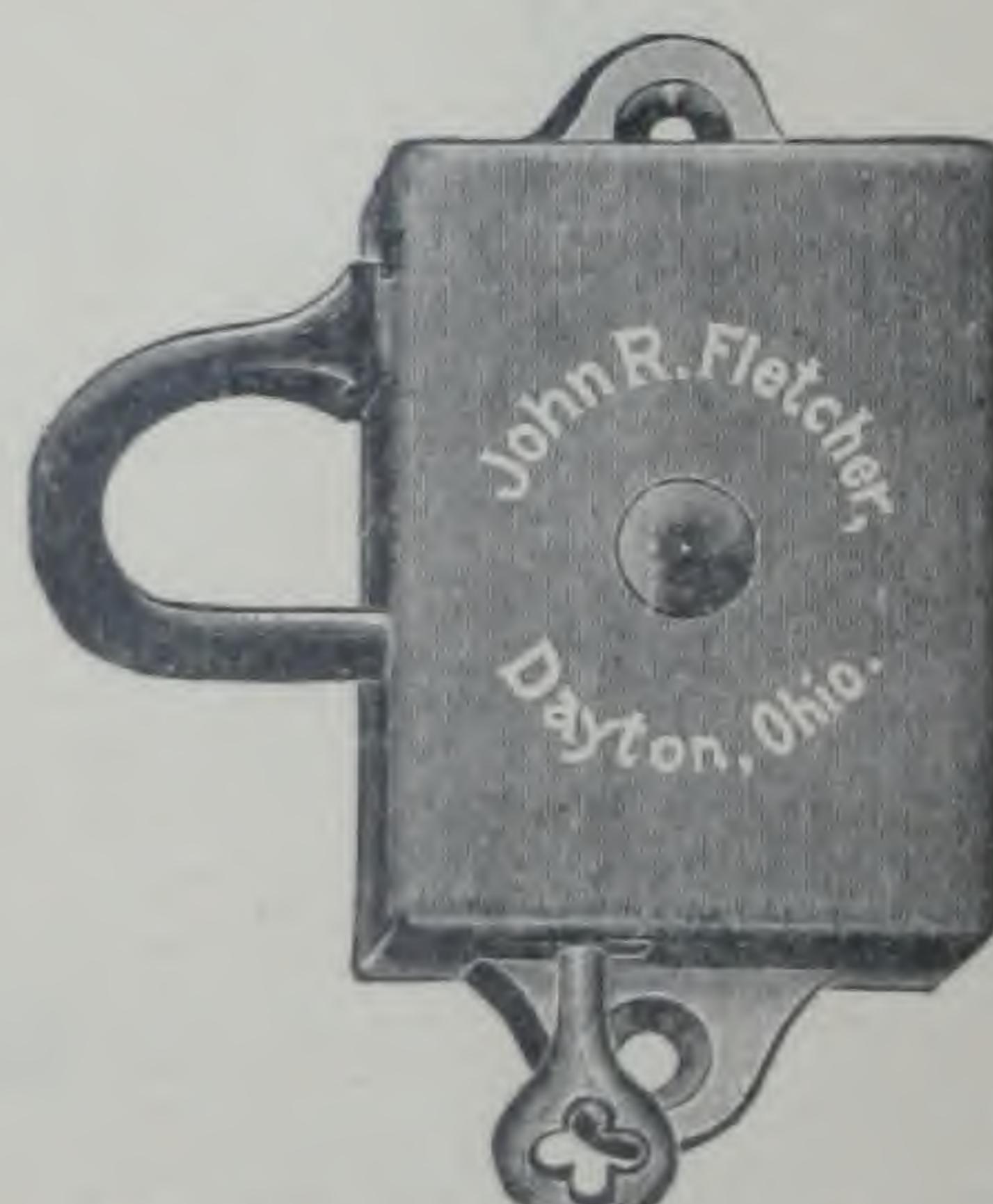
Insulated Spindles.

No. 990(Kyda) $\frac{1}{2}$ in. groove..... 18c
No. 991....(Kyke)..... $\frac{5}{8}$ in. groove..... 20c



Rope End Clamp.

No. 968 $\frac{1}{4}$ in. 8c
No. 969 $\frac{1}{2}$ in. 10c



No. 962. Pole Lock. 35c.

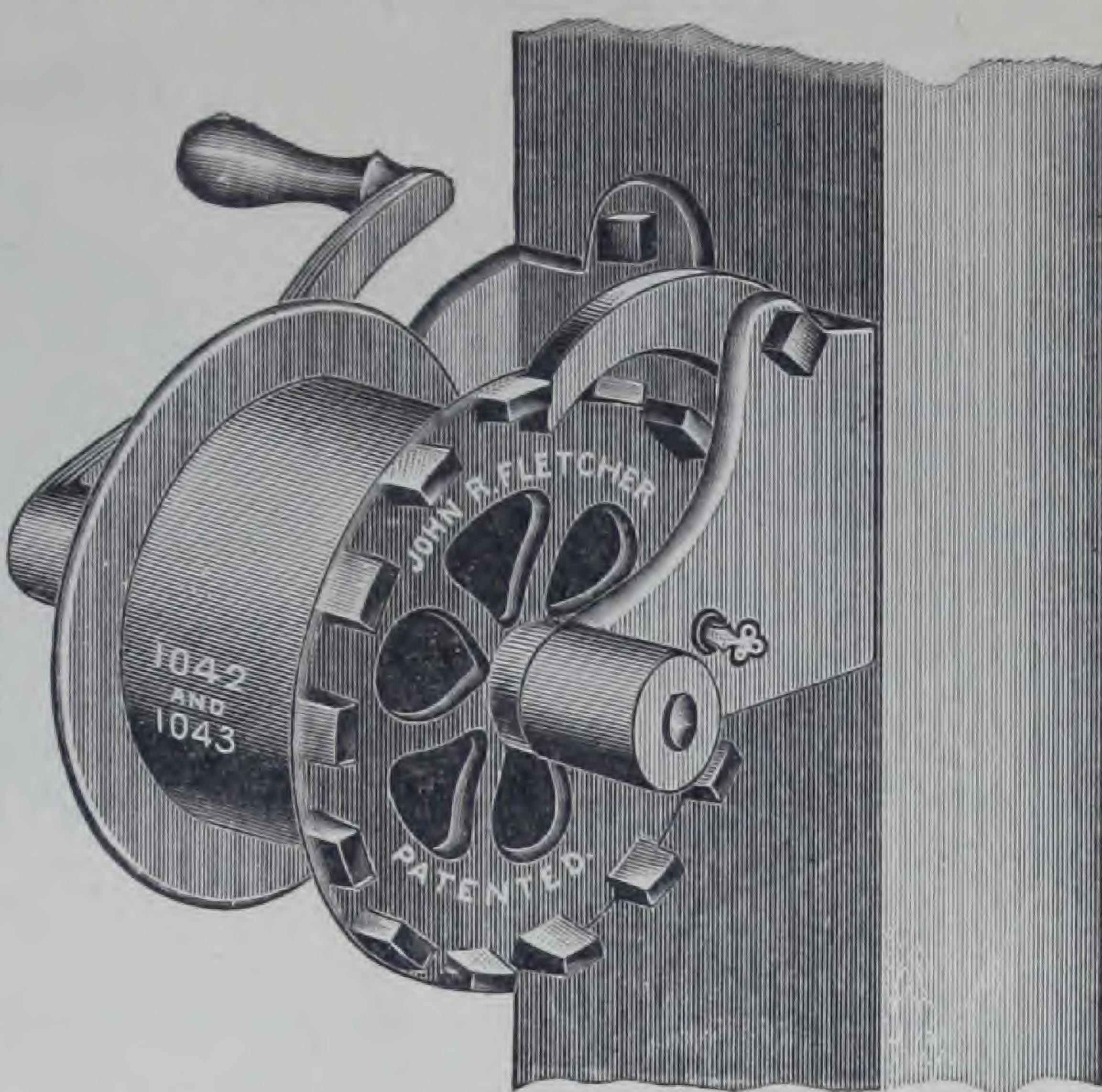


No. 907. 15c.
Rope Cleat, 9 in.

The Fletcher Safety Windlass.

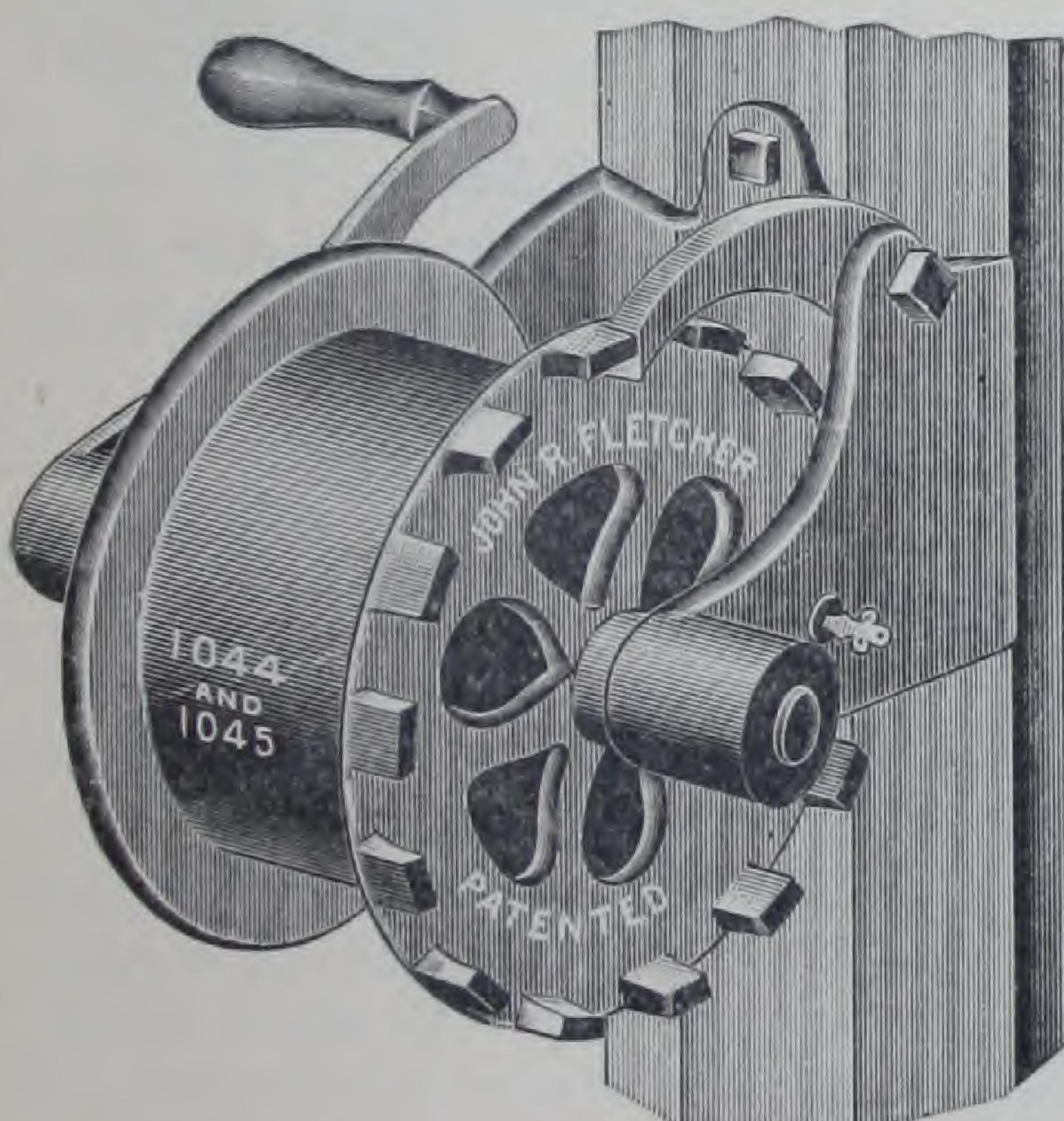
FLAT BACK.

But this Windlass can not be used on walls; it is designed especially for square poles ONLY.



No. 1042. Windlass (takes 35 feet $\frac{1}{4}$ inch flexible iron cord).....	each, \$2 60
" 1043. Windlass (takes 40 feet $\frac{1}{2}$ inch rope).....	" 3 00
" 1050. Handle (or crank) for either of above Windlasses... ..	" 50

The Fletcher Safety Windlass.



OCTAGON.

This Windlass designed especially for octagon poles. We must know the size of the facets so as to insure a perfect fit.

No. 1044. Windlass (takes 35 feet $\frac{1}{4}$ inch flexible iron cord).....	each, \$2 60
" 1045. Windlass (takes 40 feet $\frac{1}{2}$ inch rope).....	" 3 00
" 1050. Handle (or crank) for either of above Windlasses.....	" 50

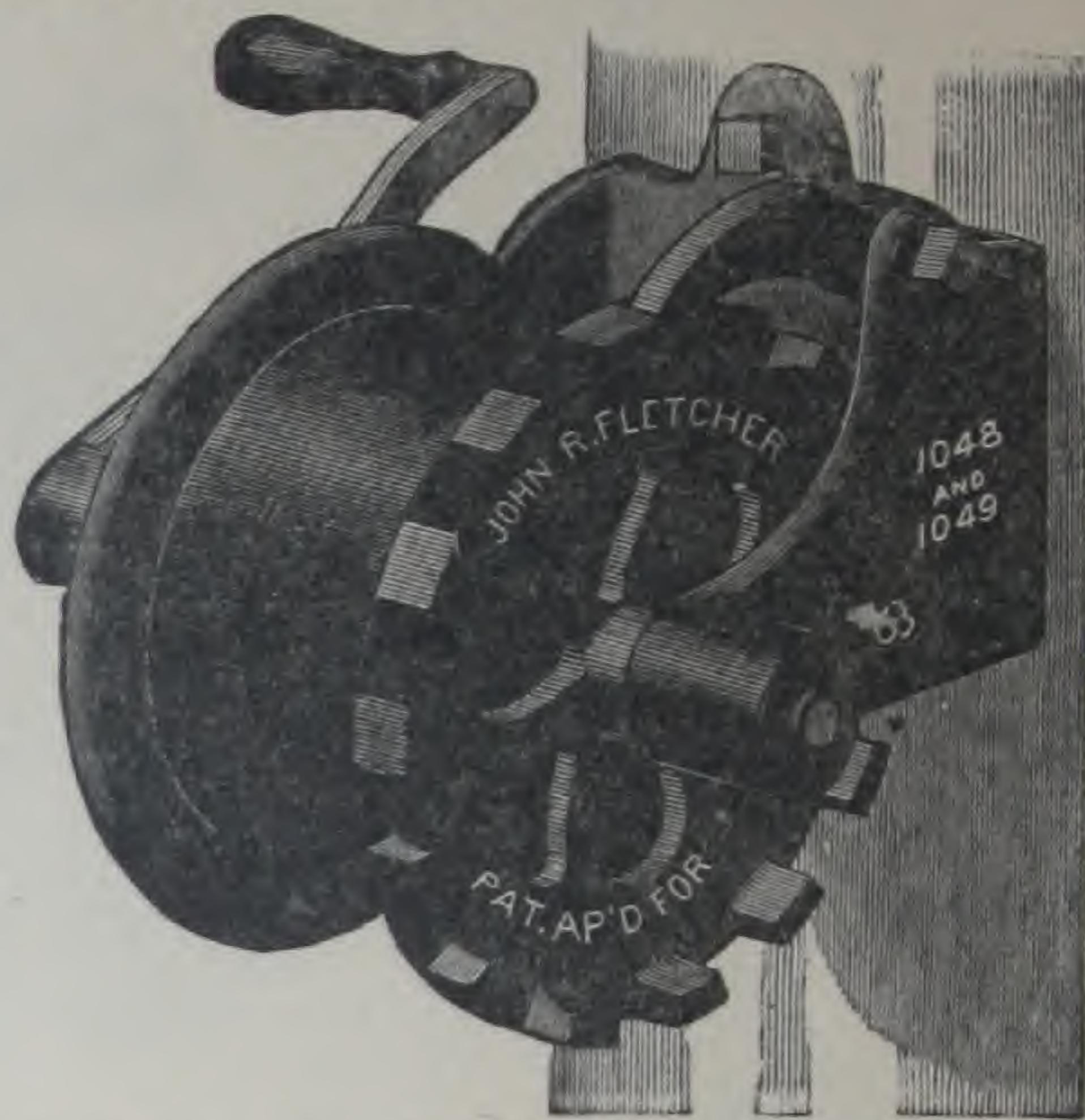
The Fletcher Safety Windlasses.

FOR WOOD POLES.

The best and most modern Windlass yet invented. No cumbersome padlock is required, but Windlass is safely locked with key weighing less than half an ounce.

The handle is so arranged that it can not slip off, but is easily removed when not in use.

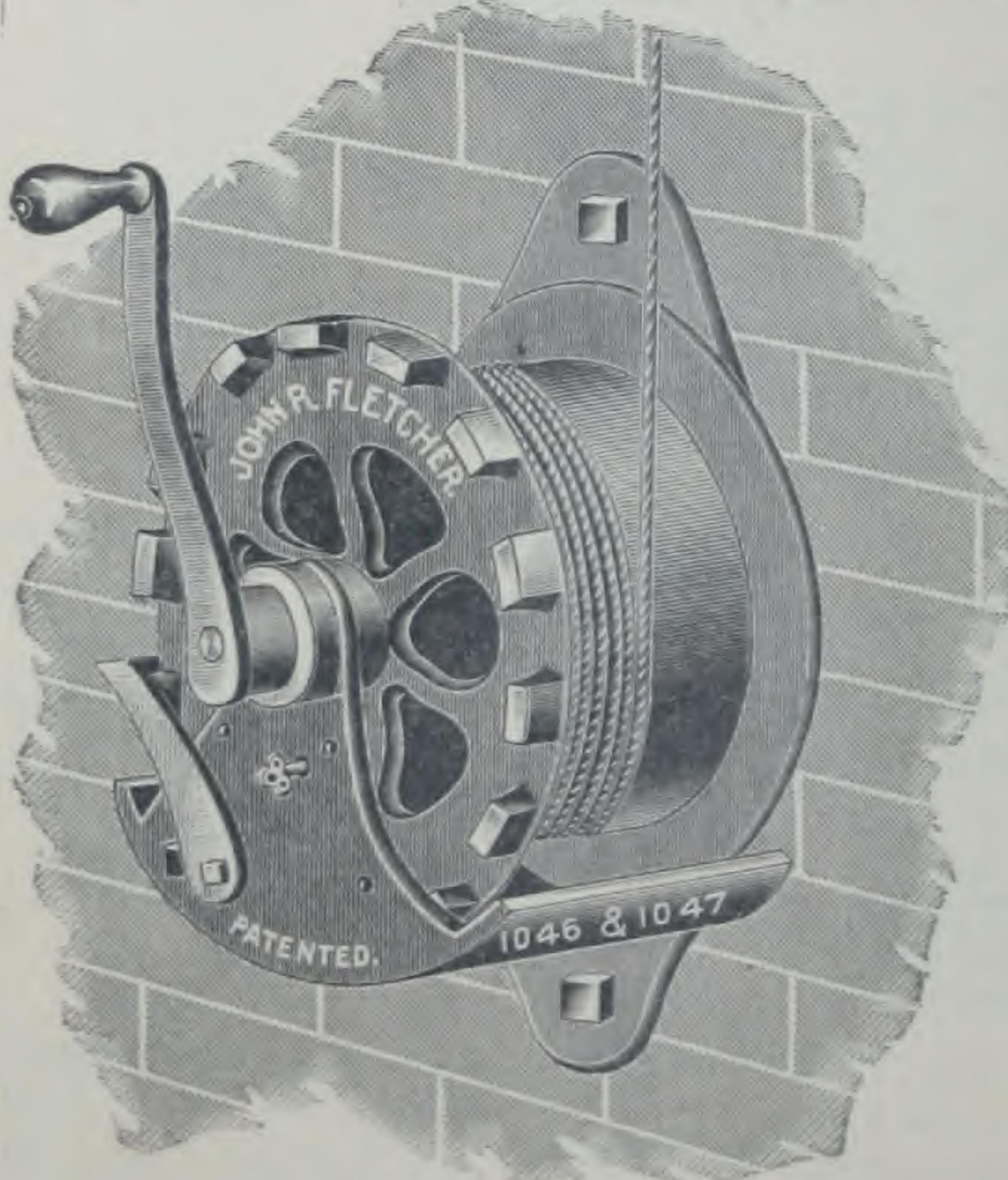
Only one handle necessary for each trimmer.



No. 1048. Windlass (takes 35 feet $\frac{1}{4}$ inch flexible iron cord).....	Price each, \$2 60
" 1049. Windlass (takes 40 feet $\frac{1}{2}$ inch rope)	" 3 00
" 1050. Handle (or crank) for either of above Windlasses.....	" 50

The Fletcher "Wall" Windlasses.

Nos. 1046 and 1047.



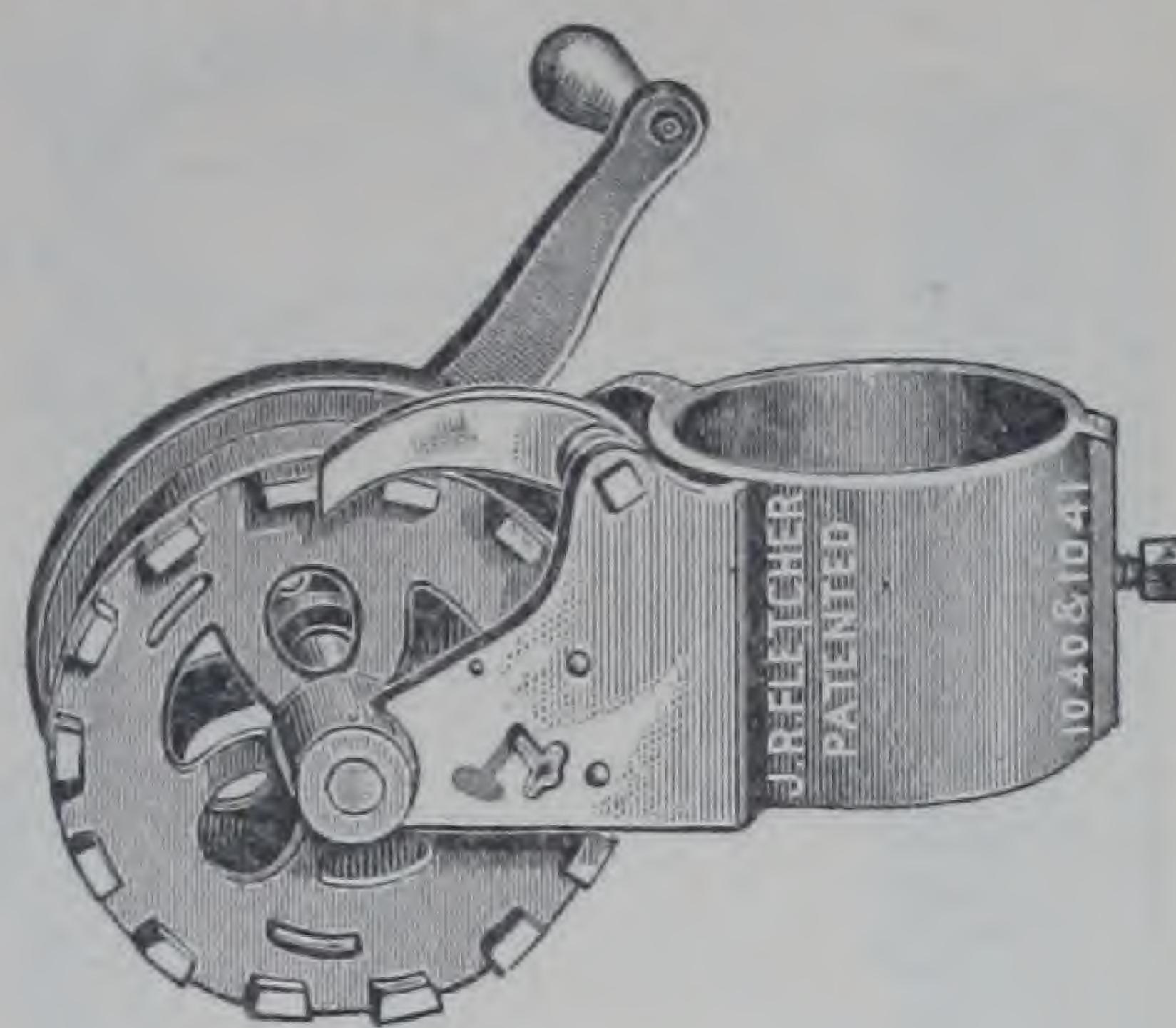
Fletcher Safety "Wall" Windlasses are the only two styles which we make especially for use on walls.

No. 1046. Wall Windlass, takes 35 feet $\frac{1}{4}$ inch flexible iron cord.....	\$2 60
No. 1047. Wall Windlass, takes 40 feet $\frac{1}{2}$ inch rope.....	\$3 00
No. 1050. Handle (or crank) for either of above Windlasses.....	50

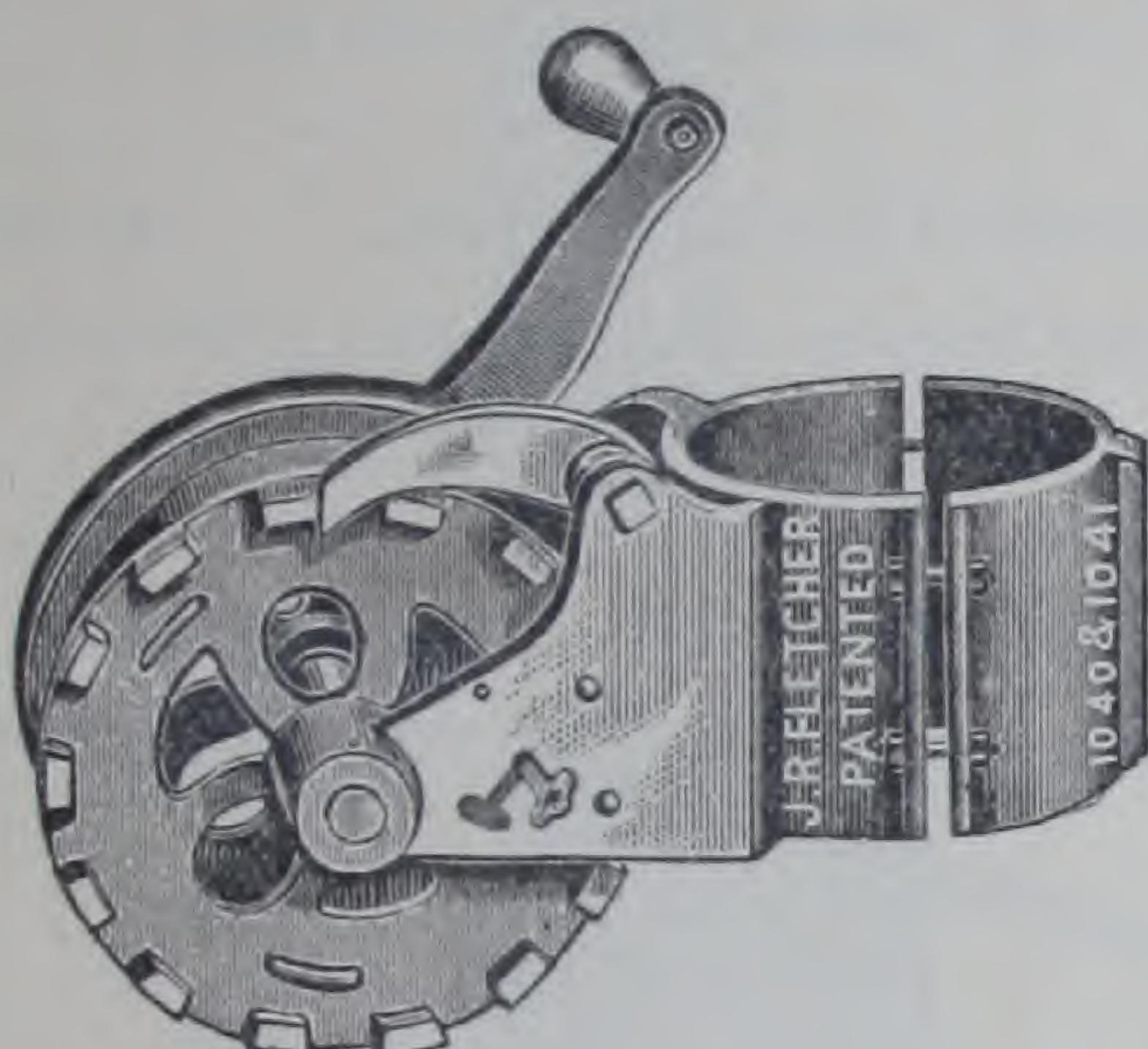
The Fletcher Safety "Pole" Windlasses.

Caliper the outside of pole so as to get a perfect fit.

No. 1040. Iron Pole Windlass, takes 35 feet $\frac{1}{4}$ inch flexible iron cord,	\$3 50
No. 1041. Iron Pole Windlass, takes 40 feet $\frac{1}{2}$ inch Rope, - - -	4 00
No. 1050. Handle (or crank) for either of above Windlasses, - - -	50



Fletcher Iron Pole Windlasses.



The following numbers take 35 feet $\frac{1}{4}$ inch flexible cord.

To fit the following outside diameters.

No. 1136, for 4.5 inch Pole.....	3 50
" 1137, for 5 " "	3 50
" 1138, for 5.563 " "	3 50
" 1139, for 6.625 " "	3 50
" 1140, for 7.625 " "	3 50

The following numbers take 40 feet $\frac{1}{2}$ inch rope, or 75 feet flexible iron cord.

To fit the following outside diameters.

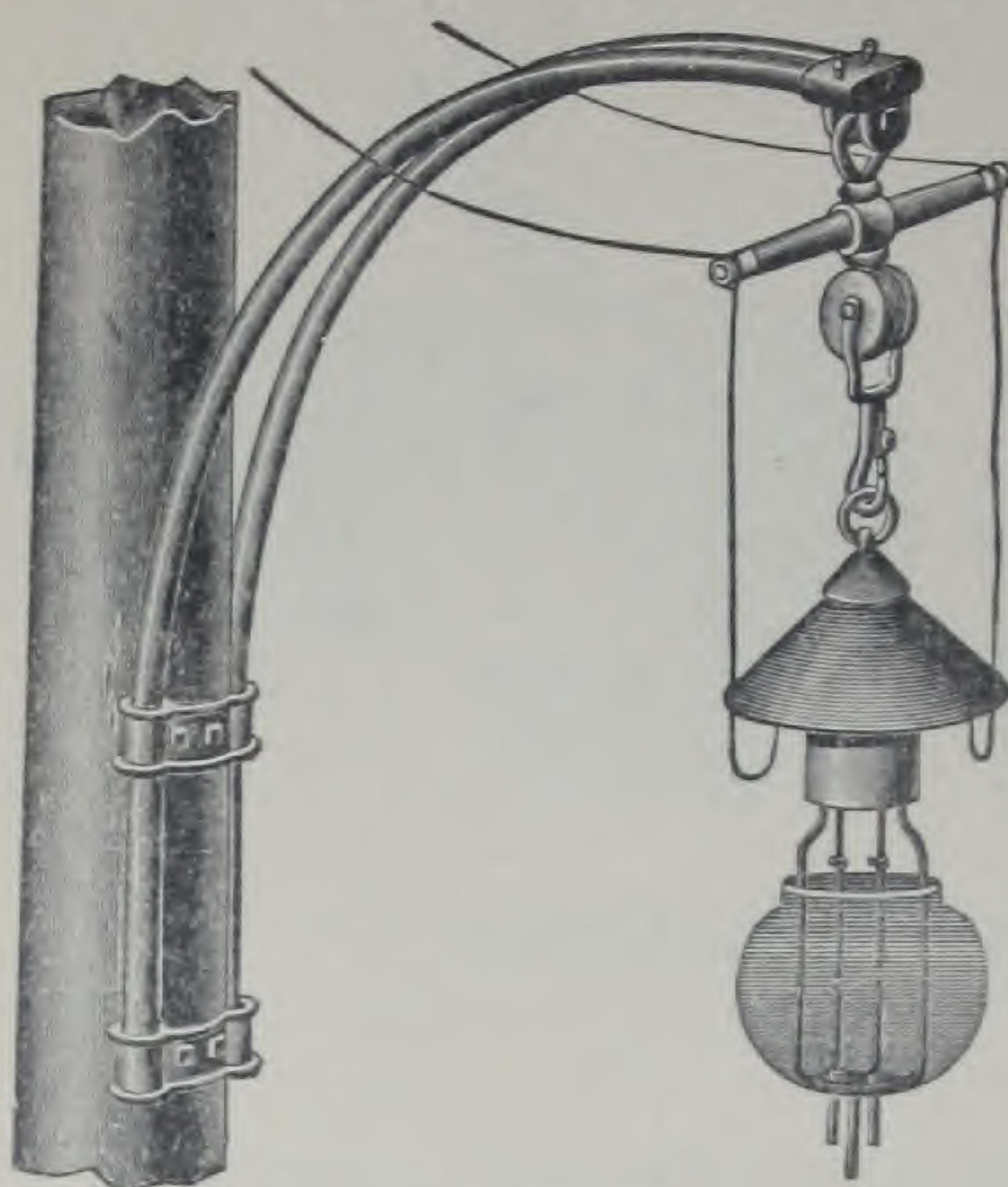
No. 1144, for 4.5 inch Pole.....	4 00
" 1145, for 5 " "	4 00
" 1146, for 5.563 " "	4 00
" 1147, for 6.625 " "	4 00
" 1148, for 7.625 " "	4 00

No. 1050, Handle (or crank) for either of above Windlasses,..... 50

PIPE SCALE MEASUREMENTS.

Inside	Outside	Inside	Outside
$\frac{1}{2}$ inch.....	.840 inch.	3 inch3.5 inch.
$\frac{3}{4}$ "	1.05 "	$3\frac{1}{2}$ "	4. " "
1 "	1.315 "	4 "	4.5 " "
$1\frac{1}{4}$ "	1.66 "	$4\frac{1}{2}$ "	5. " "
$1\frac{1}{2}$ "	1.90 "	5 "	5.563 " "
2 "	2.375 "	6 "	6.625 " "
$2\frac{1}{2}$ "	2.875 "	7 "	7.625 " "

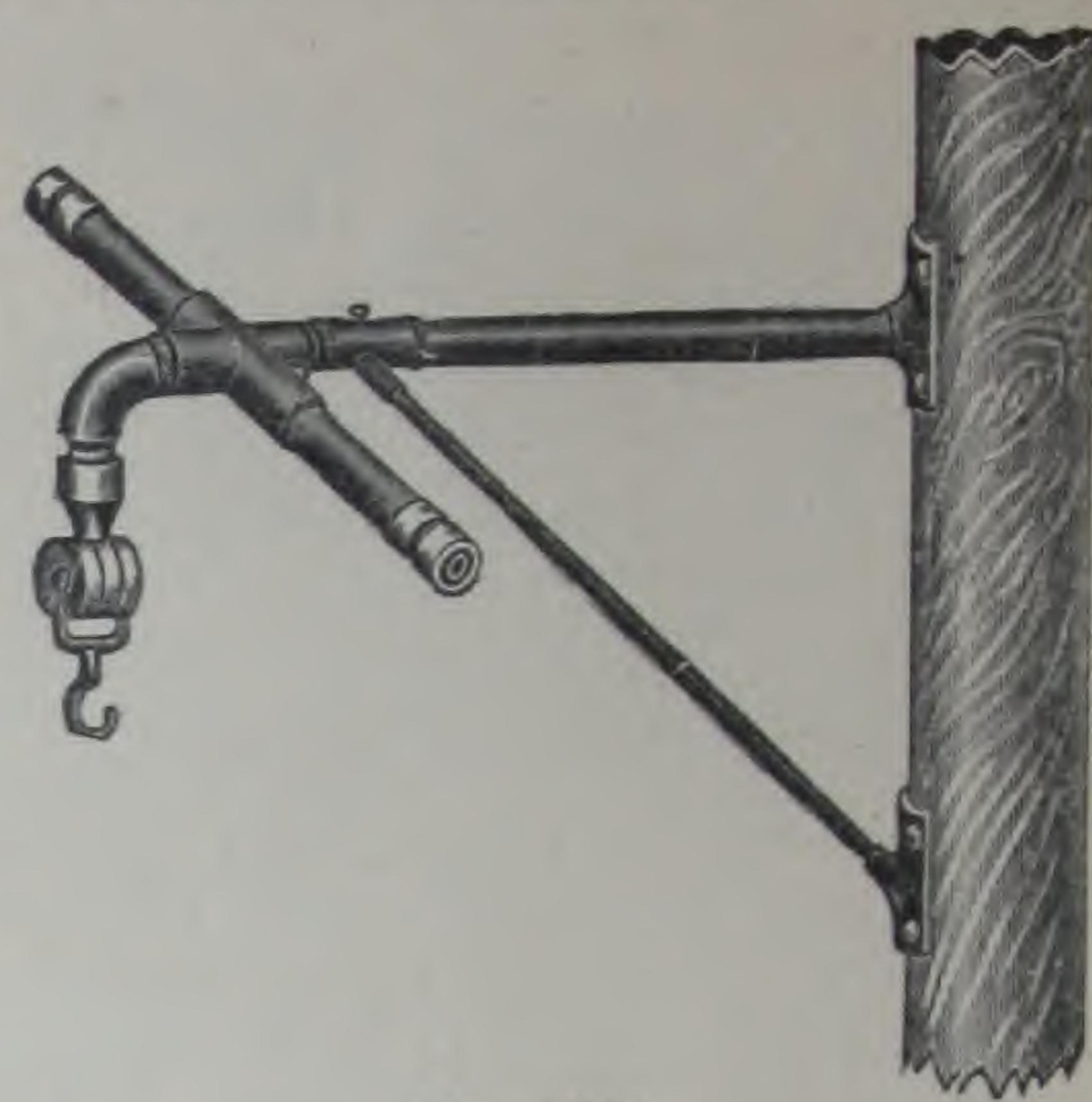
The Fletcher Arc Light Pole Brackets.



No. 1280.

Extension 2 feet, each - - - \$3.00

Includes insulated cross arm.

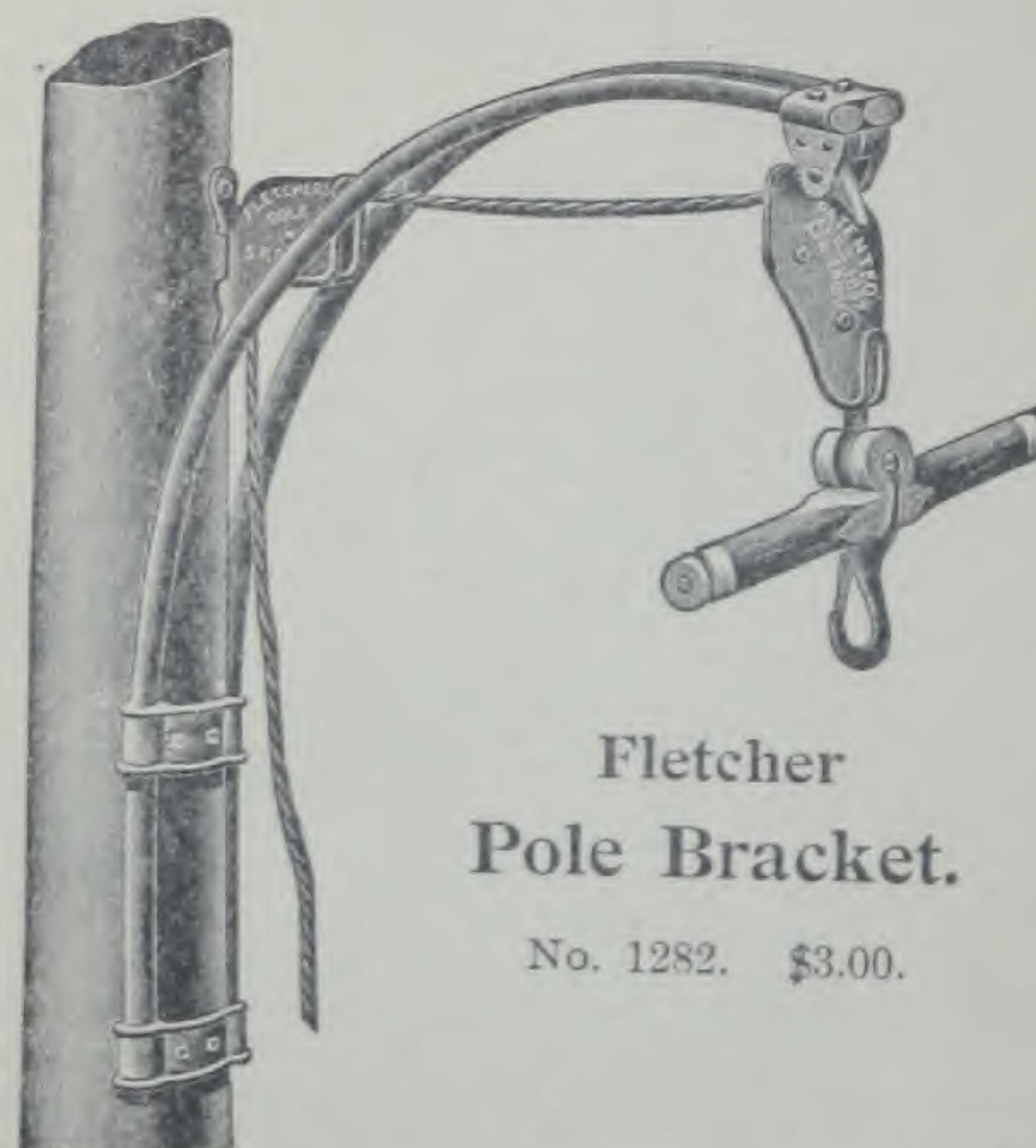


No. 1262.

Arc Lamp Bracket with insulated hook.

Extension 2 feet, price each, - - \$3.00

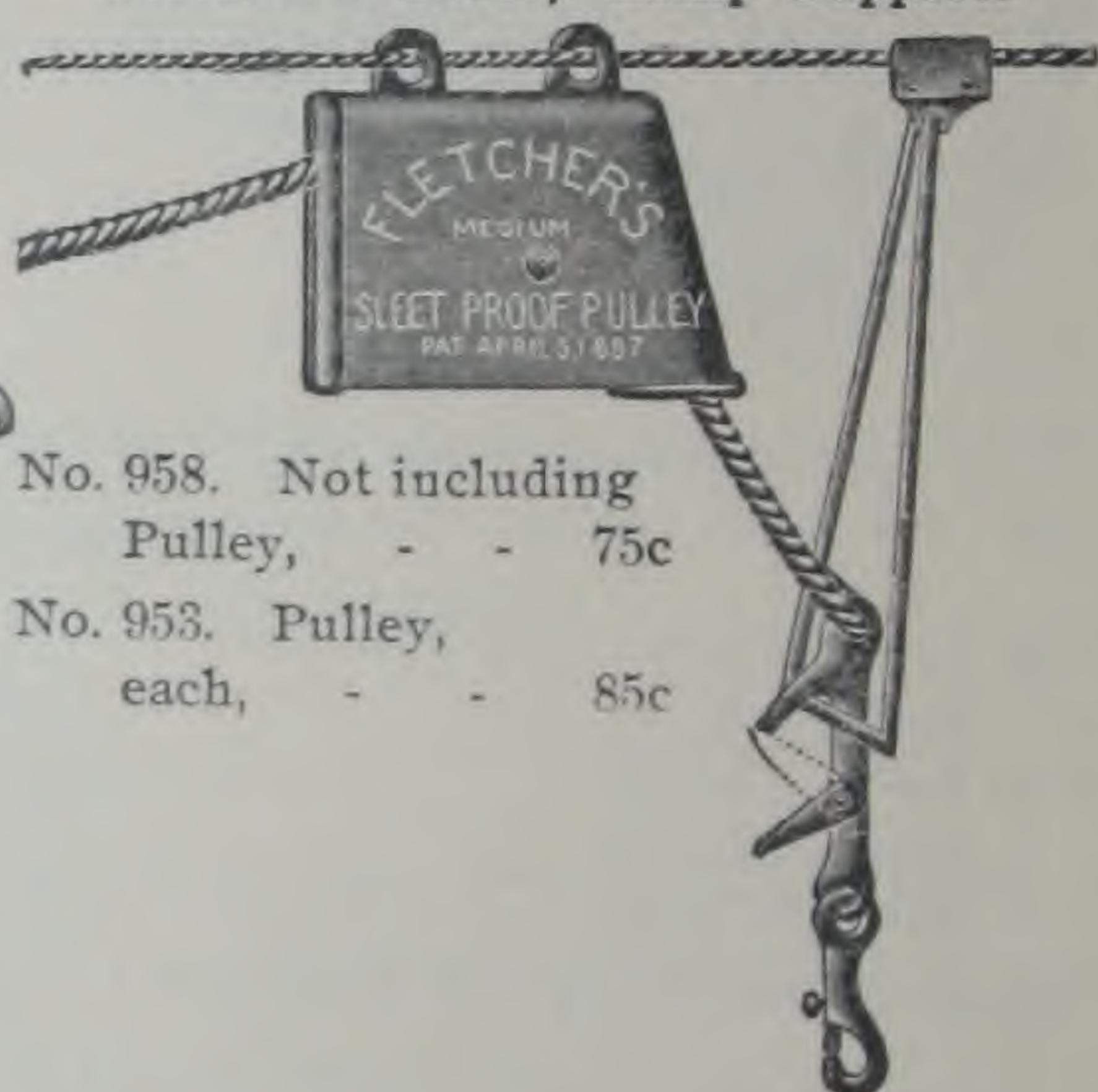
Other lengths made to order if desired.



Fletcher
Pole Bracket.

No. 1282. \$3.00.

Fletcher's Safety Lamp Support.



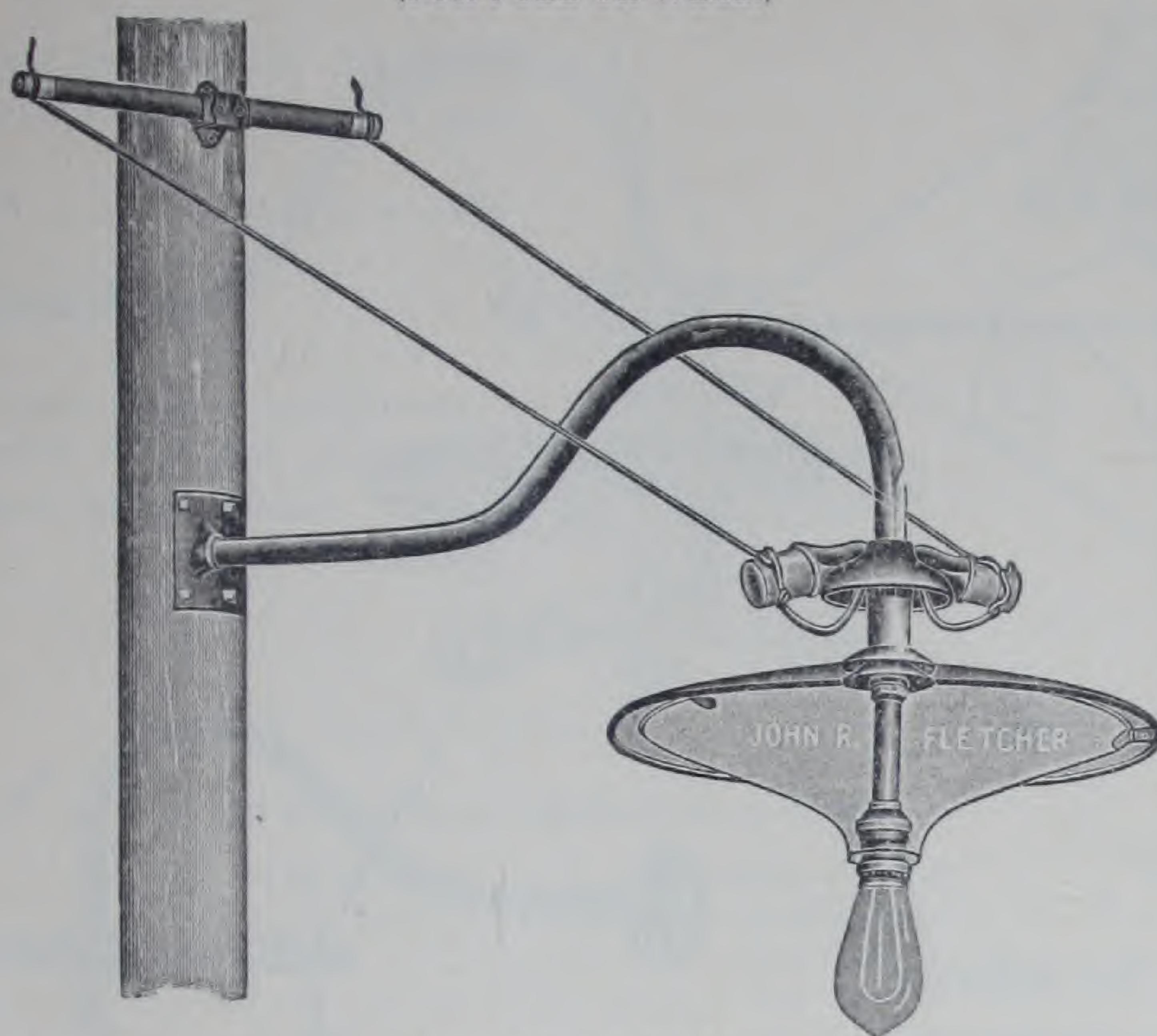
No. 958. Not including Pulley, - - - 75c

No. 953. Pulley, each, - - - 85c

- We are well prepared to manufacture special goods relating to Arc or Incandescent lighting. If you do not find what you want in our Catalogue, send us a sketch with dimensions plainly marked, and the number of pieces required, and we will furnish you the lowest possible price for same.

Fletcher Reflector Bracket.

(FOR POLE OR WALL.)



No. 1244. 1 Light.

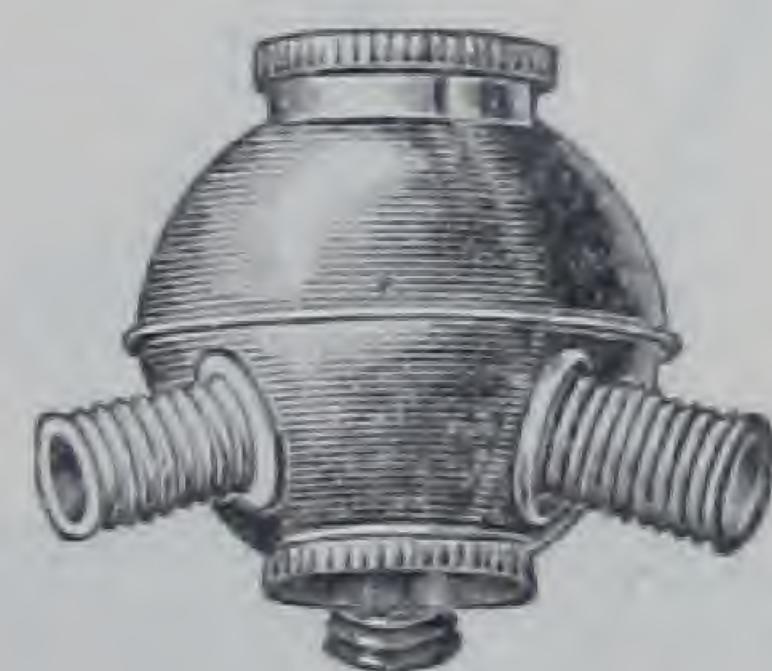
3 feet extension, each.....	\$2 40
4 " "	2 50
5 " "	2 75
6 " "	3 00

Zinc Reflector, 15 in. diameter. One Socket included in above estimate.

Please state if for Edison, T-H, or Westinghouse Lamps.

2, 3, 4 and 5-Light Cluster Bodies furnished for the above if desired.

Please state whether for Pole or Wall.

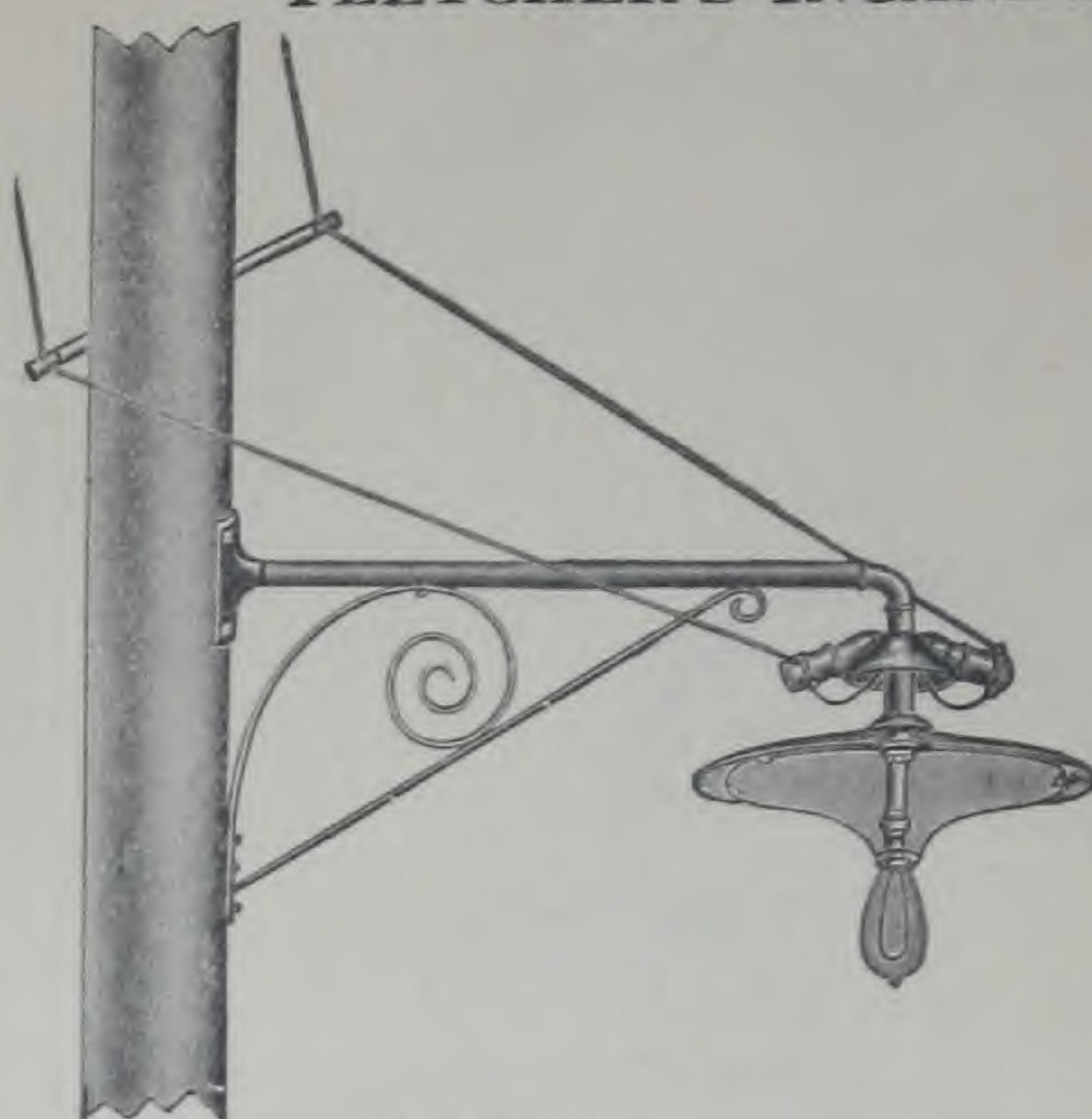


Cluster Bodies Furnished at the Following Prices:

502. 2-Light	35c
503. 3-Light.....	45c
504. 4-Light.....	55c
505. 5-Light.....	65c

These Cluster Bodies will fit any Reflector Bracket made by us.

FLETCHER'S INCANDESCENT REFLECTORS.

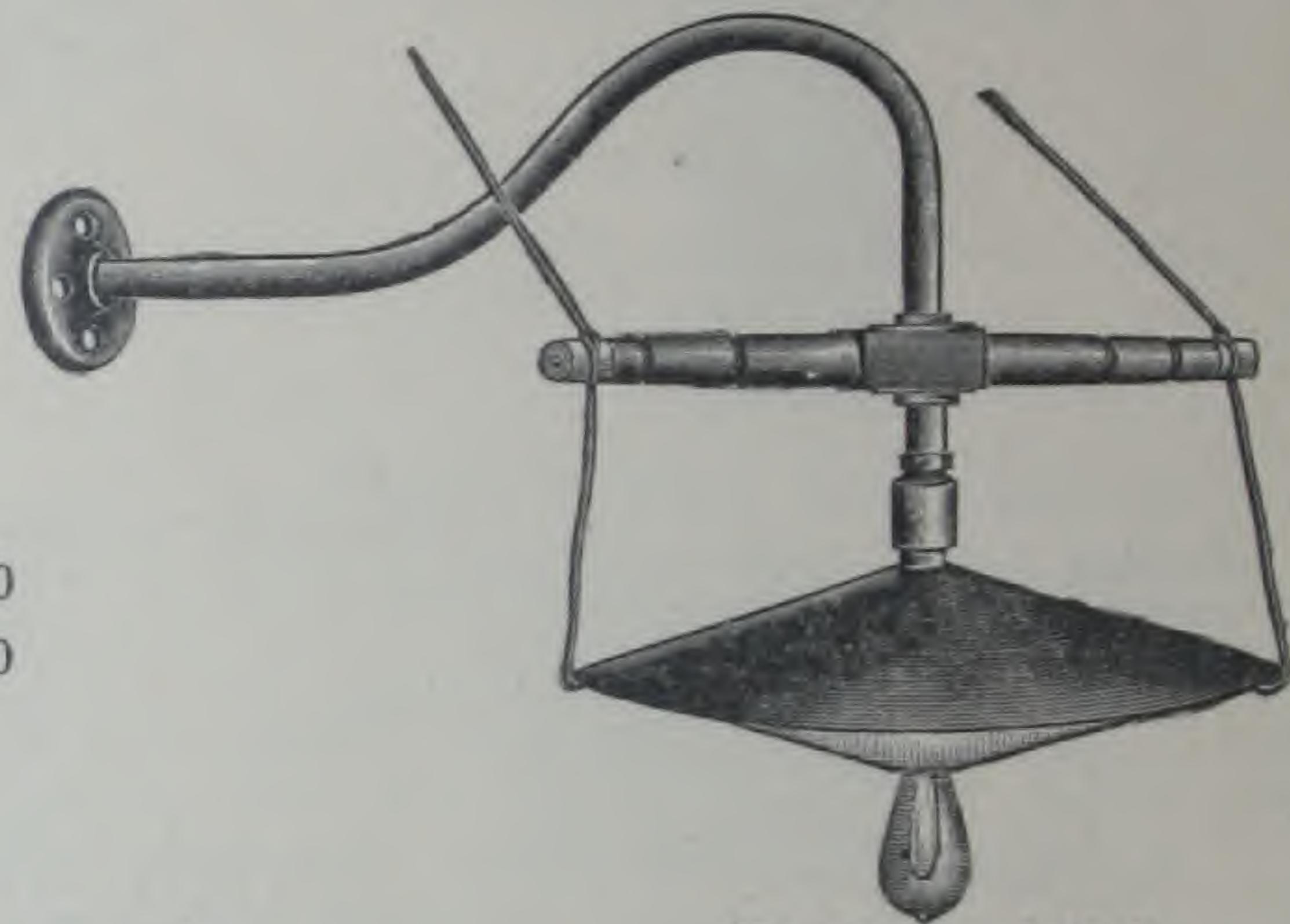


No. 1252

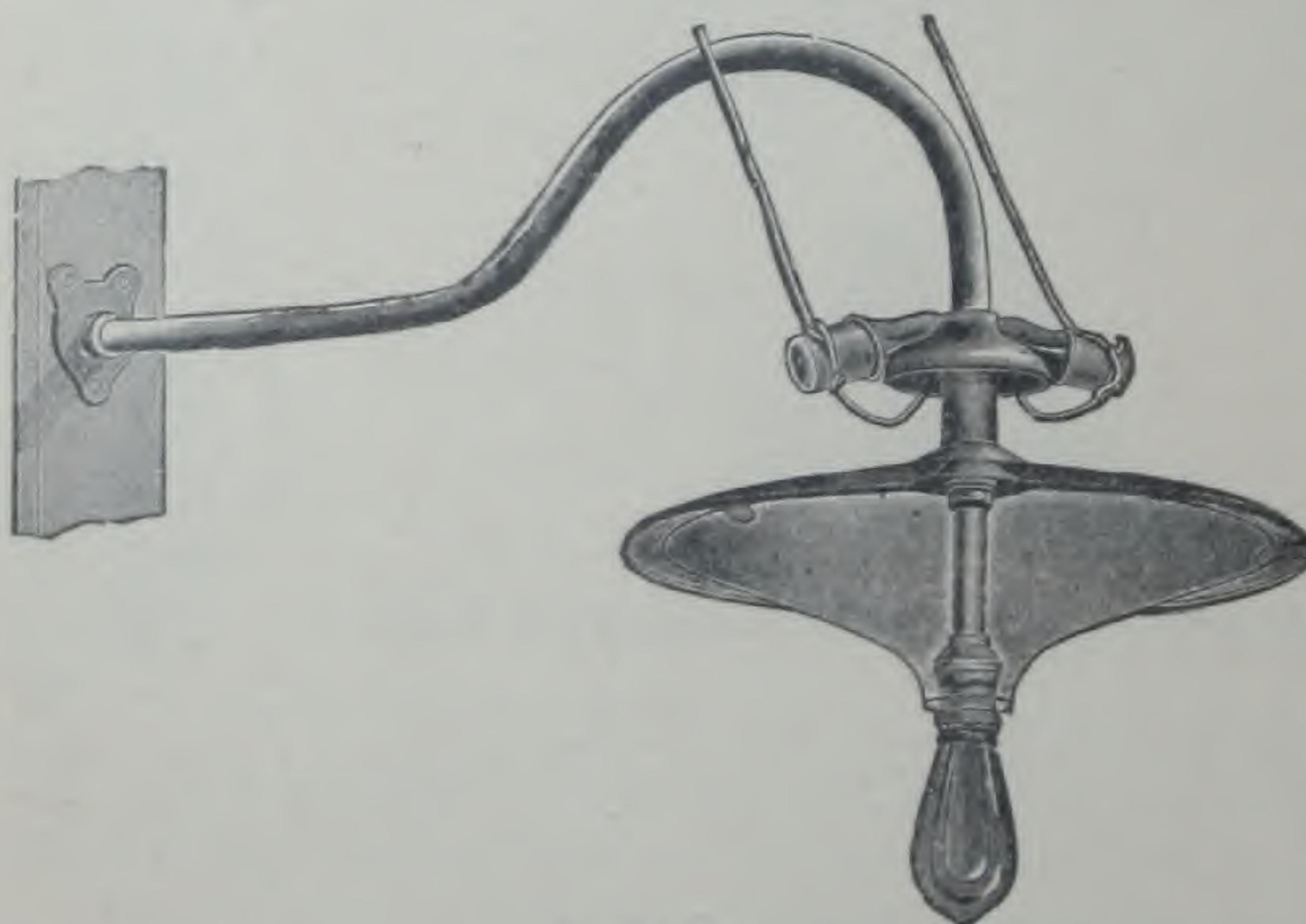
No. 1252. Incandescent Bracket with Zinc Reflector, 15 inches diameter.

3 feet extension.	each, \$3 60
4 " "	" 3 80
5 " "	" 4 00

Above prices include sockets. State if for T-H., Edison or Westinghouse lamps. Cluster bodies furnished if desired.



No. 1245 and 1247.



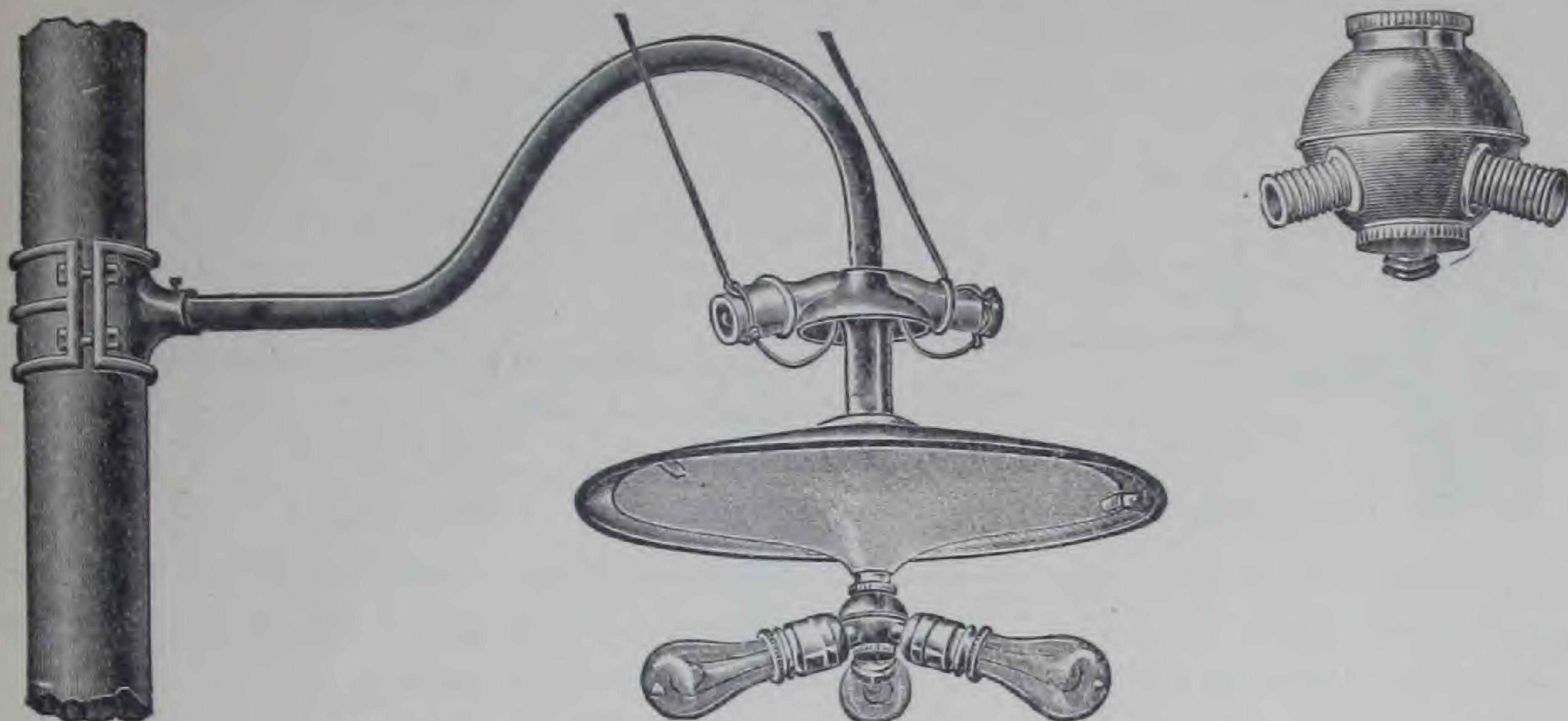
No. 1244.

No. 1244.

4 feet extension,	each, \$2 50
5 feet extension,	each, 2 75
6 feet extension,	each, 3 00

Zinc Reflector, 15 in diameter. Sockets included in above estimate. Please state if for Edison, T.-H., or Westinghouse lamps. Cluster bodies furnished if desired.

Fletcher's Incandescent Reflectors.

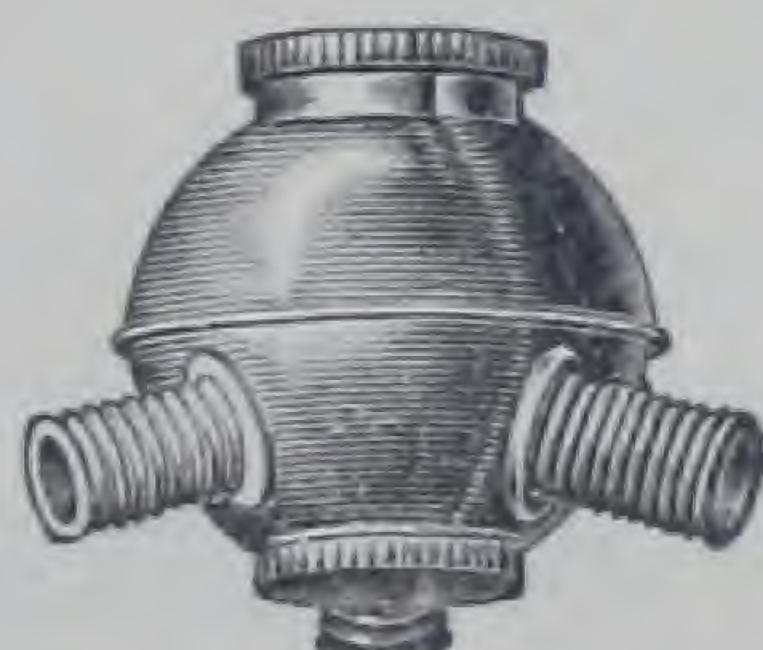


No. 1250. Extension 4 feet.

Fit Iron Pipes of Diameters as Follows:

Cat. No.	Inside Diameter.	Outside Diameter.	Price including one Socket.
1250-2	2 inch.....	2.375 inch	\$3 00
1250-2-½	2½ "	2.875 "	3 00
1250-3	3 "	3.5 "	3 10
1250-3-½	3½ "	4. "	3 10
1250-4	4 "	4.5 "	3 20
1250-4-½	4½ "	5. "	3 20
1250-5	5 "	5.563 "	3 35
1250-6	6 "	6.625 "	3 50
1250-7	7 "	7.625 "	3 65

The figures following Catalogue numbers refer to size of Pole Band and not to Cluster Bodies. Caliper your pole and give us correct Catalogue number. Also state if you wish the nipple threaded for $\frac{1}{2}$ inch, $\frac{3}{4}$ inch, or 1 inch pipe. Above prices do not include Cluster Bodies or Sockets which go with them.



Cluster Bodies Furnished at the Following Prices:

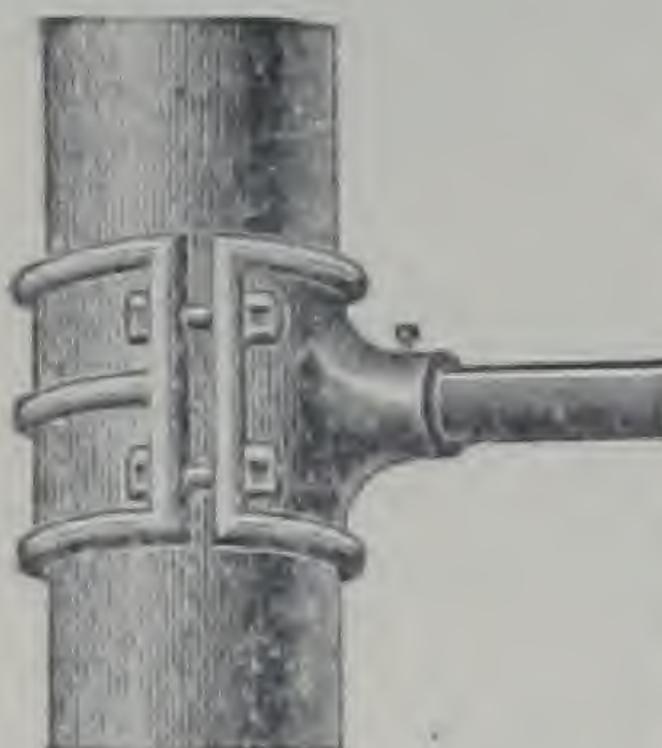
502. 2-Light	35c
503. 3-Light.....	45c
504. 4-Light	55c
505. 5-Light	65c

These Cluster Bodies will fit any Reflector Bracket made by us.

Fletcher Iron Pole Bands.

With threaded nipple for standard $\frac{1}{2}$ ", $\frac{3}{4}$ " or 1" (inside diameter) gas pipe.

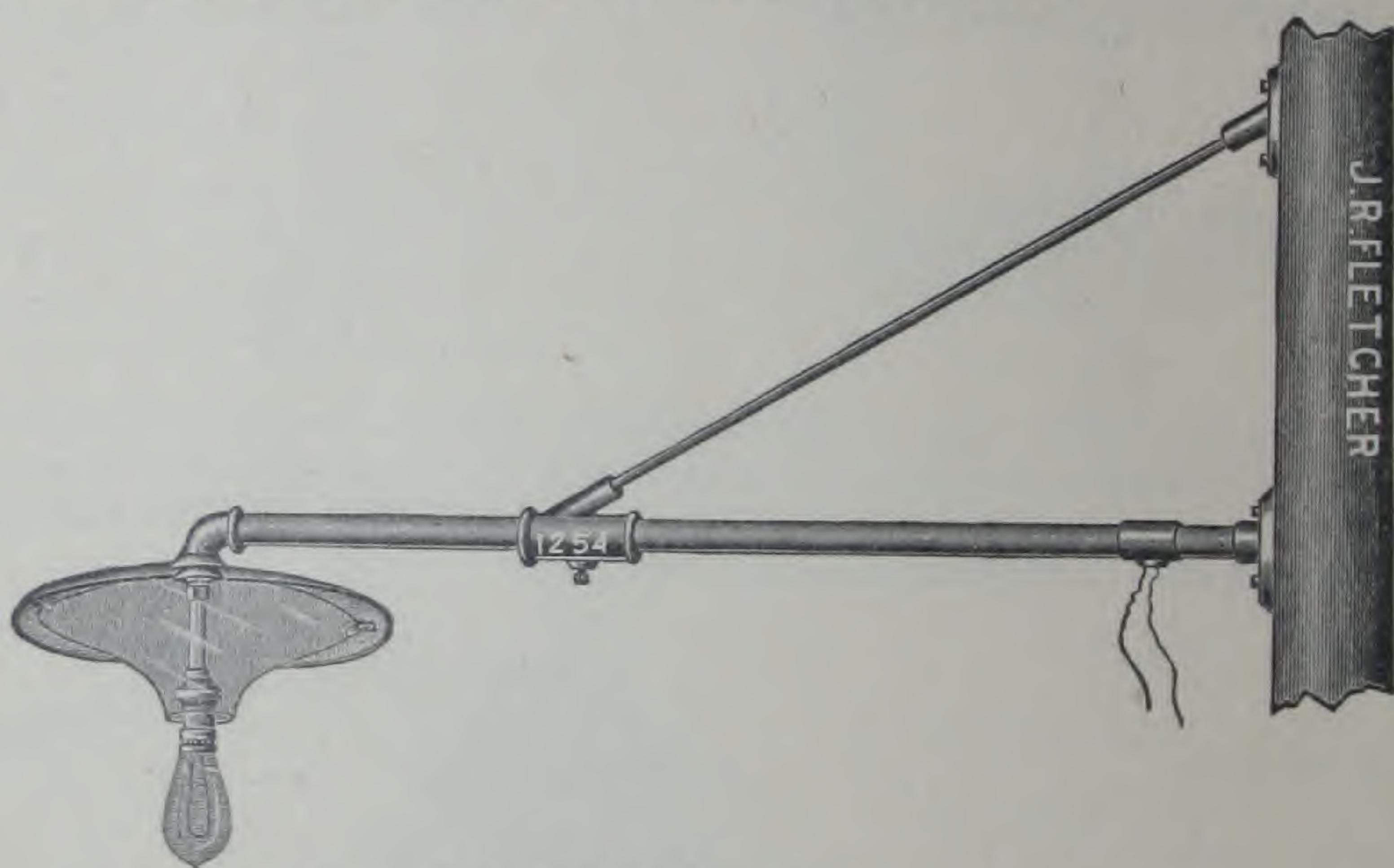
Fit Iron Pipes of Diameters as follows:



Cat. No.	Inside Dianeter.	Outside Diameter.
400-2	2 inch.....	2.375 inch
400-2- $\frac{1}{2}$	2 $\frac{1}{2}$ "	2.875 "
400-3	3 "	3.5 "
400-3- $\frac{1}{2}$	3 $\frac{1}{2}$ "	4. "
400-4	4 "	4.5 "
400-4- $\frac{1}{2}$	4 $\frac{1}{2}$ "	5. "
400-5	5 "	5.563 "
400-6	6 "	6.625 "
400-7	7 "	7.625 "

Caliper your pole and give us correct Catalogue number. Also state if you wish the nipple threaded for $\frac{1}{2}$ ", $\frac{3}{4}$ " or 1" Pipe. Please write us stating number of Bands, (with bolts) desired, and we will quote you the lowest possible price on same.

Fletcher's Incandescent Reflectors.



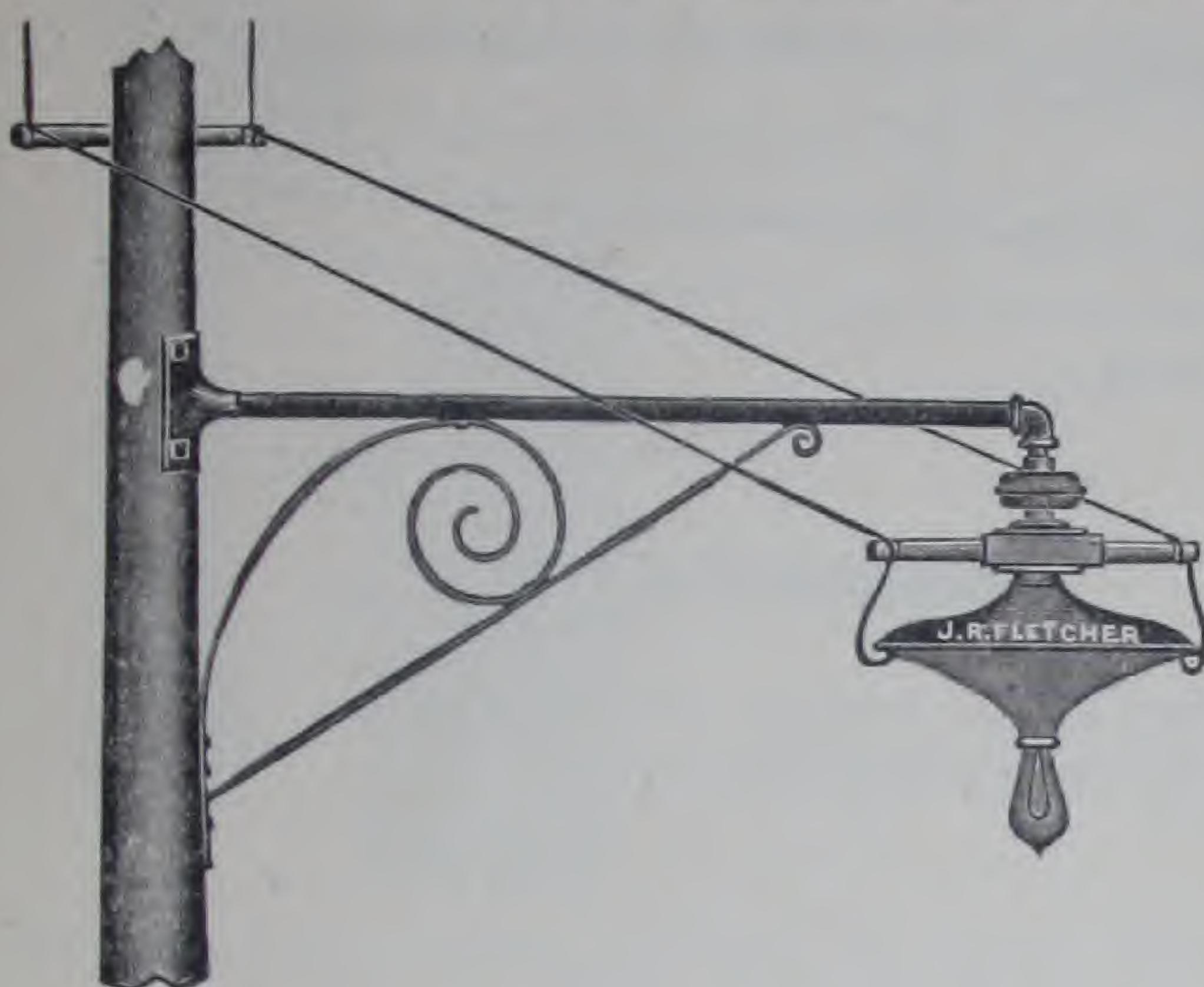
No. 1254.—ZINC REFLECTOR.

4 feet extension,.....	each, \$3.00.	10 feet extension.	each, \$4.50
6 " "	" 3.50.	12 " "	" 5.00
8 " "	" 4.00.	14 " "	" 5.50

Sockets are included in the above estimate. Please state if for Edison, T. H., or Westinghouse lamps. Cluster bodies furnished if desired. Please state if for pole, wall, or corner.

Fletcher's Incandescent Scroll Bracket

With Insulating Joint and Pole Cross-Arm.



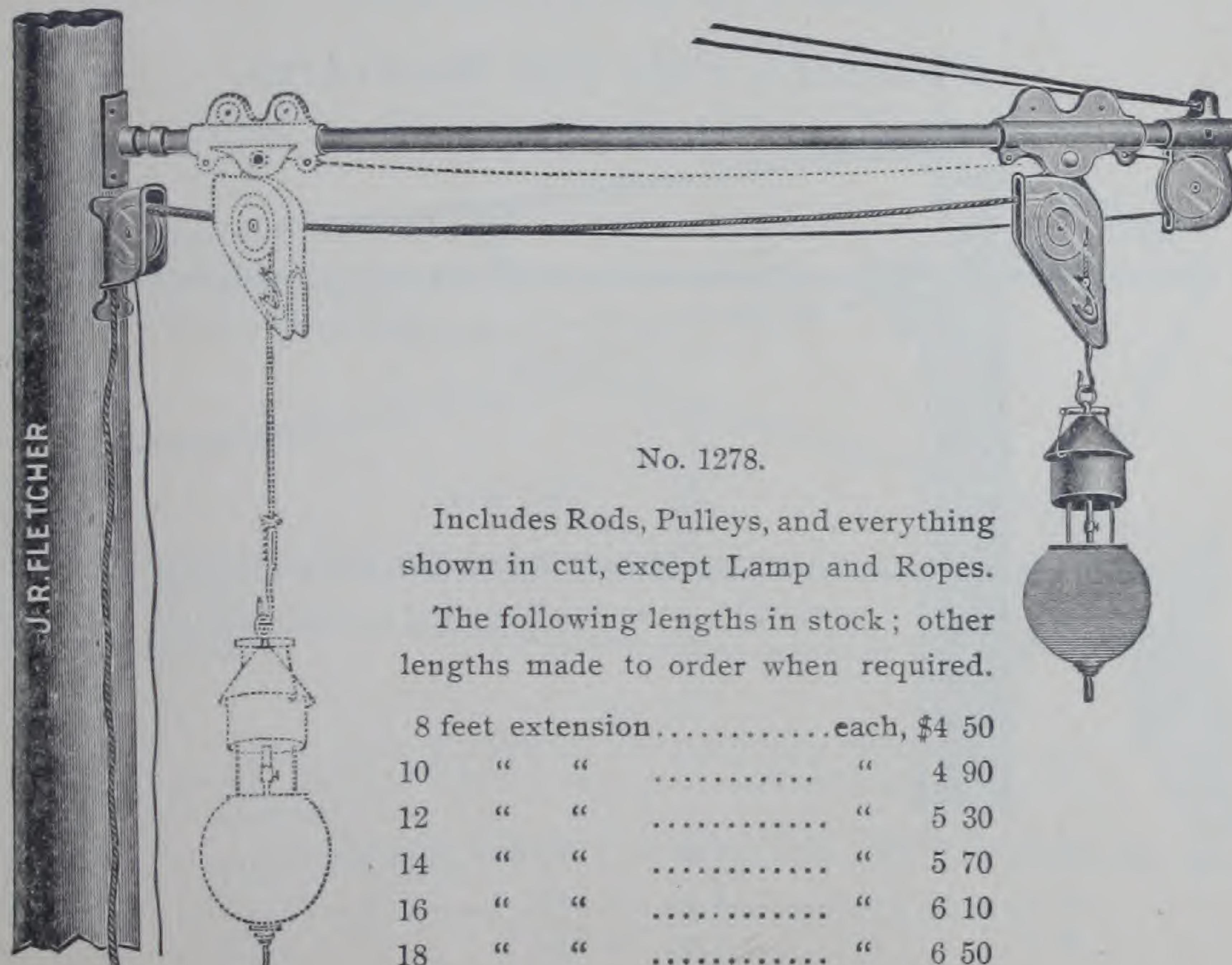
Zinc Reflector, 15 inches diameter.
Receptacle included in prices named
below.

No. 1253.

4 feet extension.....	\$3 50
5 " "	3 65
6 " "	3 80

Fletcher's Traveling Mast-Arms.

(PATENTED.)



No. 1278.

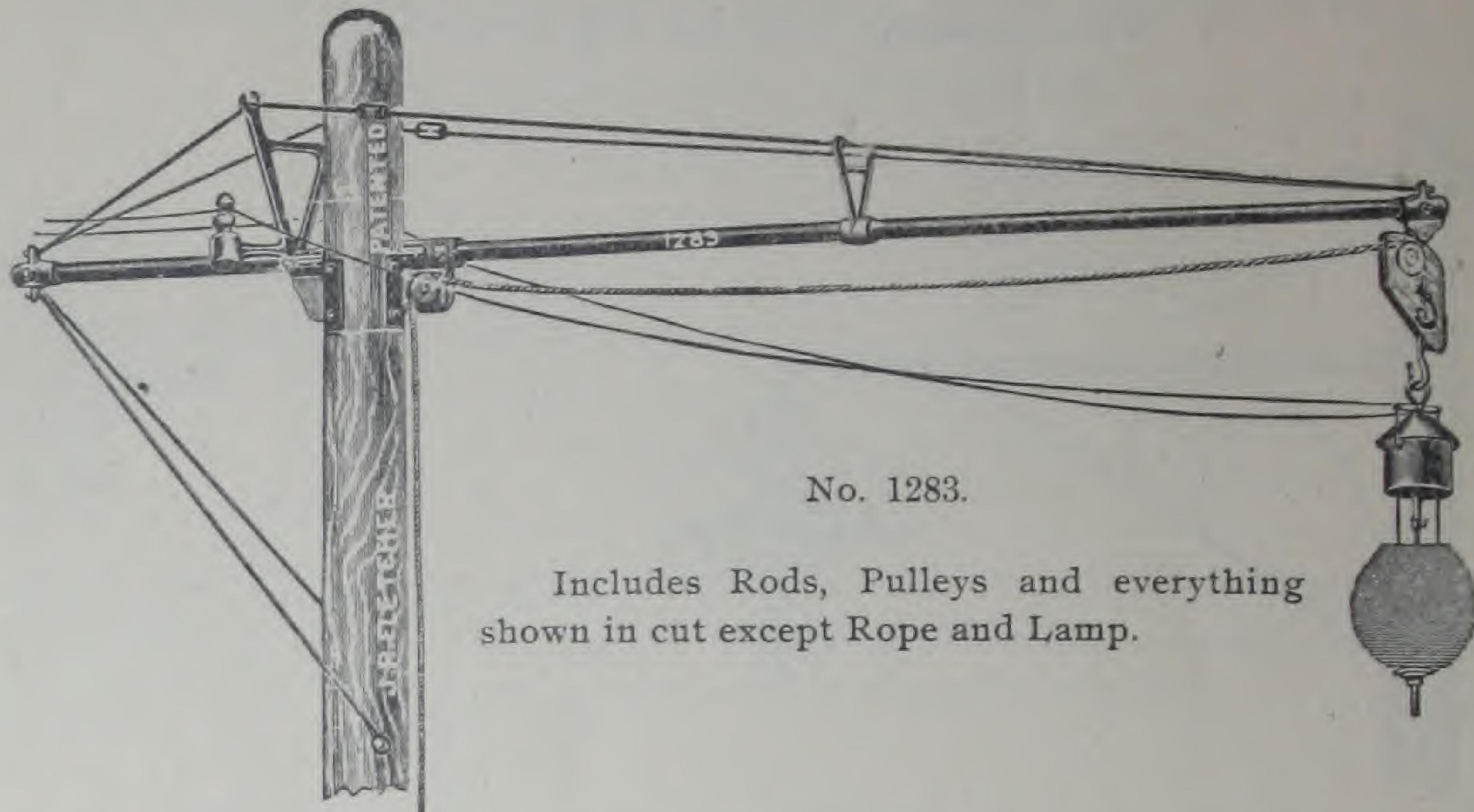
Includes Rods, Pulleys, and everything
shown in cut, except Lamp and Ropes.

The following lengths in stock; other
lengths made to order when required.

8 feet extension.....	each, \$4 50
10 " "	" 4 90
12 " "	" 5 30
14 " "	" 5 70
16 " "	" 6 10
18 " "	" 6 50

Fletcher's Bracket Mast-Arm.

(PATENTED.)

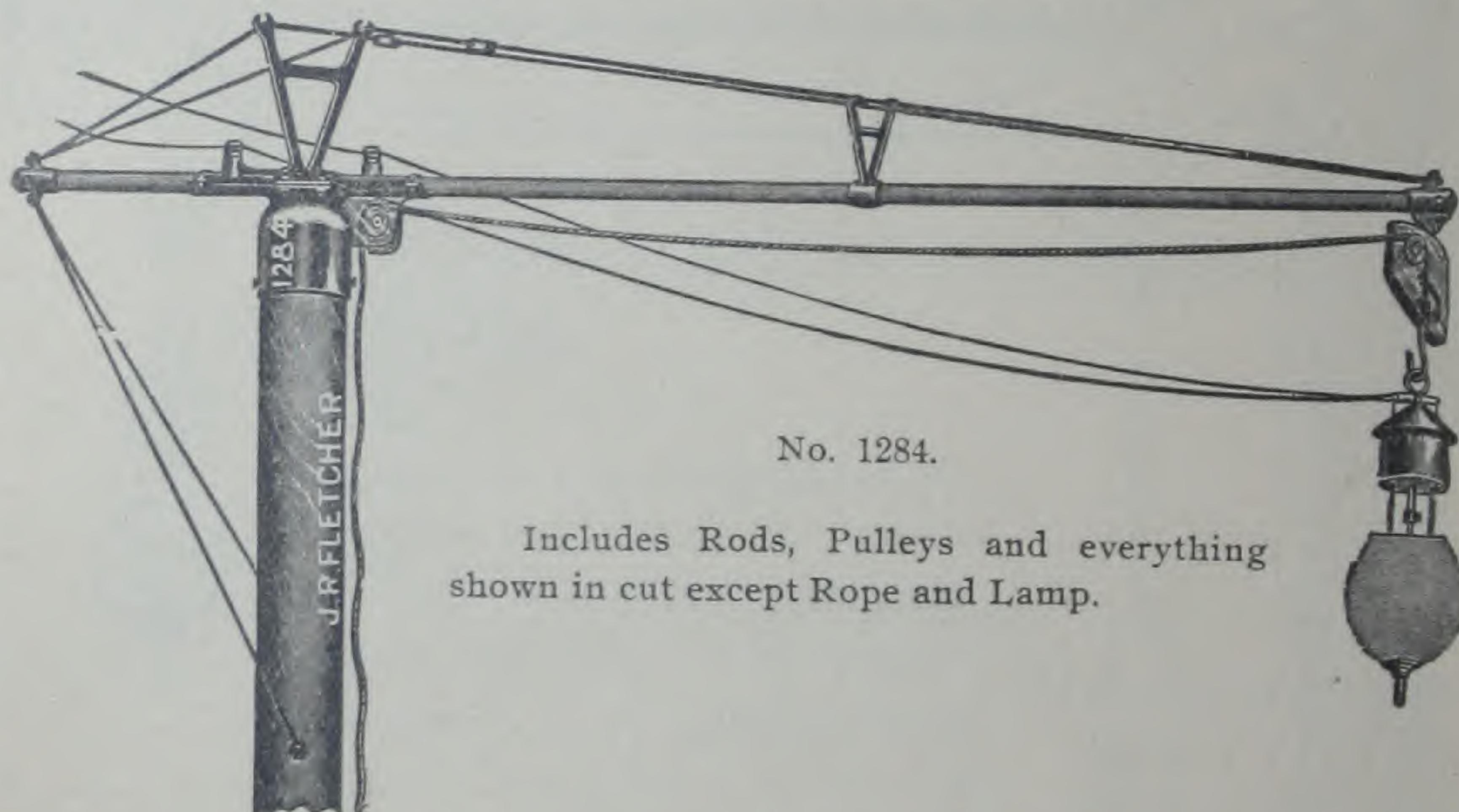


No. 1283.

Includes Rods, Pulleys and everything shown in cut except Rope and Lamp.

8 feet extension.....	\$7 30.	14 feet extension.....	\$8 50
10 " "	7 65.	16 " "	8 85
12 " "	8 00.	18 " "	9 20

Fletcher's Pole Top Mast-Arm.

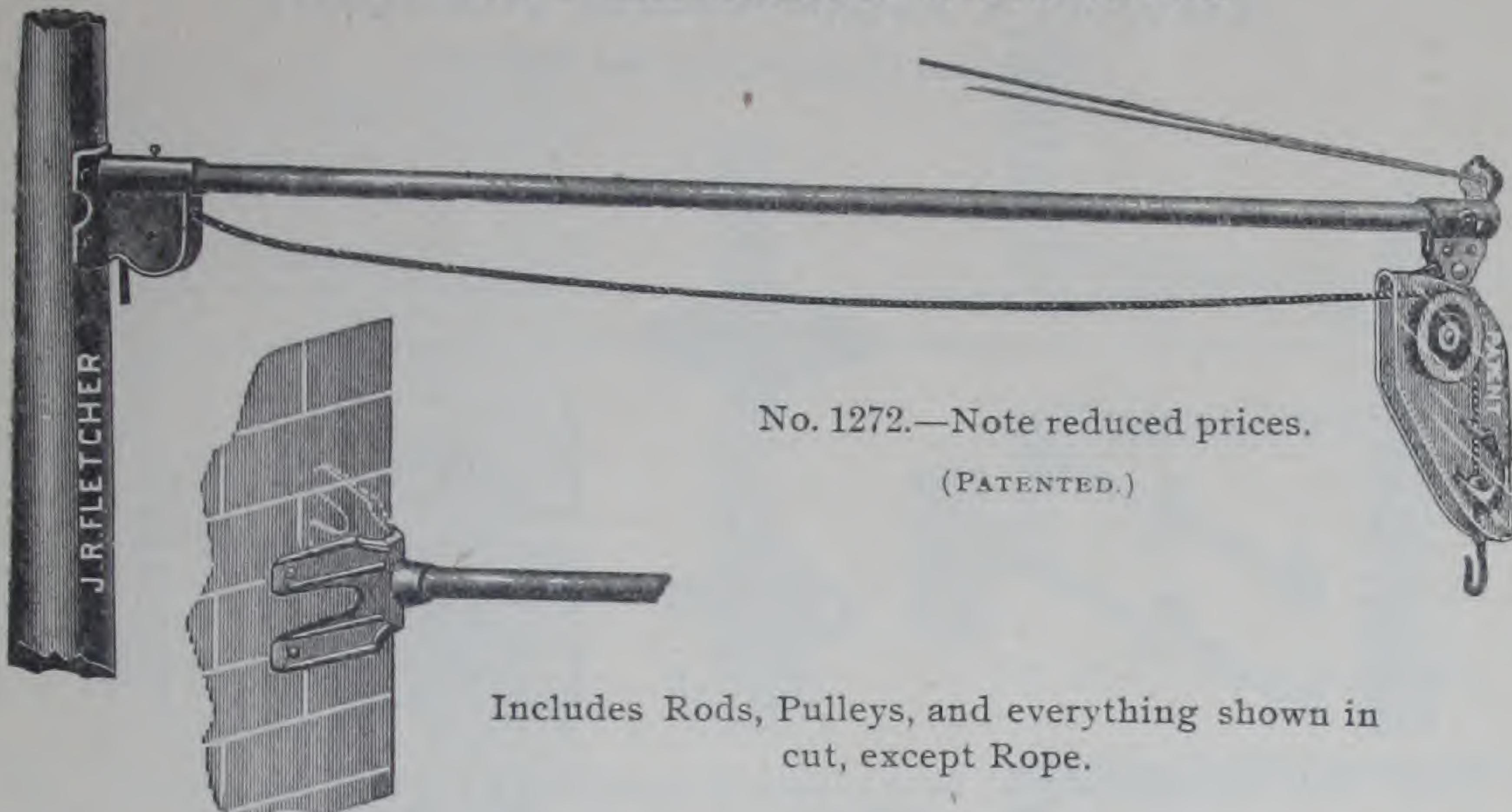


No. 1284.

Includes Rods, Pulleys and everything shown in cut except Rope and Lamp.

8 feet extension,	\$8 00.	14 feet extension.....	\$ 9 50
10 " "	8 50.	16 " "	10 00
12 " "	9 00.	18 " "	10 50

Fletcher's Extension Mast-Arm.



No. 1272.—Note reduced prices.

(PATENTED.)

Includes Rods, Pulleys, and everything shown in cut, except Rope.

The following lengths are kept in stock; other lengths made to order when required:

WITH 1-INCH STEEL TUBING.

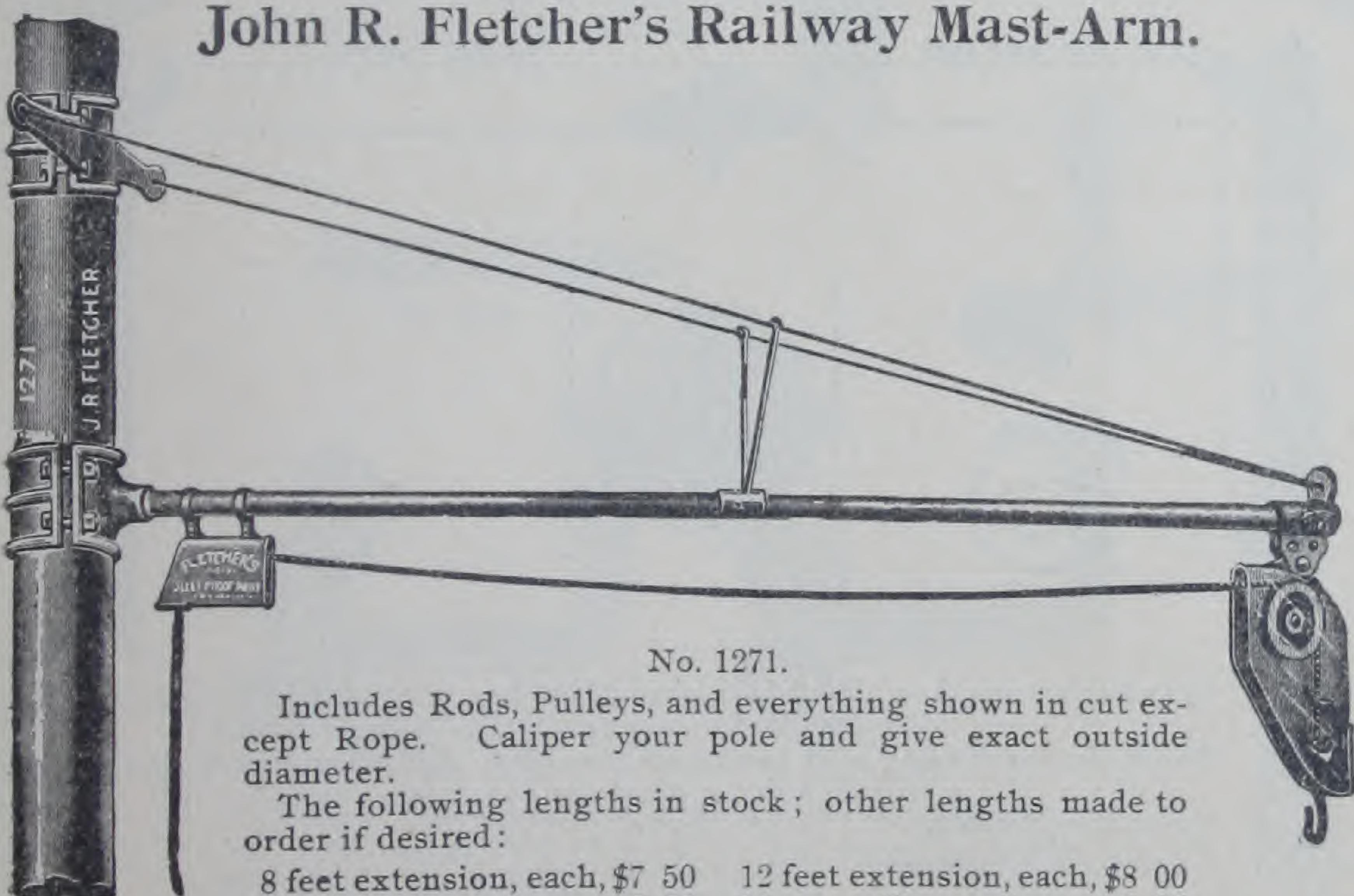
4 feet extension.....	each, \$3 60
5 " "	" 3 70
6 " "	" 3 80
7 " "	" 3 90
8 " "	" 4 00

WITH 1½-INCH STEEL TUBING.

10 feet extension.....	each, \$5 00
12 " "	" 5 25
14 " "	" 5 50
16 " "	" 5 75
18 " "	" 6 00

Please state if for pole, wall or corner.

John R. Fletcher's Railway Mast-Arm.



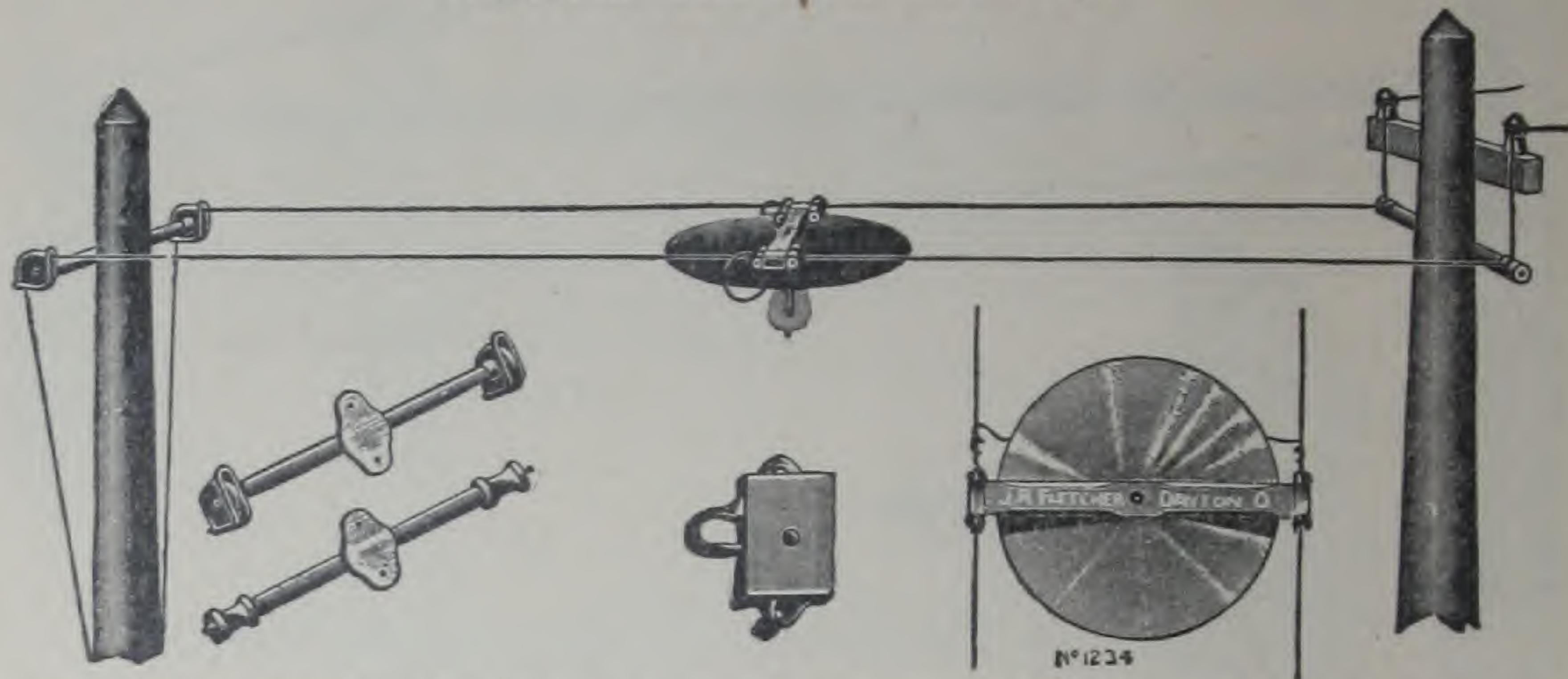
No. 1271.

Includes Rods, Pulleys, and everything shown in cut except Rope. Caliper your pole and give exact outside diameter.

The following lengths in stock; other lengths made to order if desired:

8 feet extension, each, \$7 50	12 feet extension, each, \$8 00
10 " " 7 75	14 " " 8 25

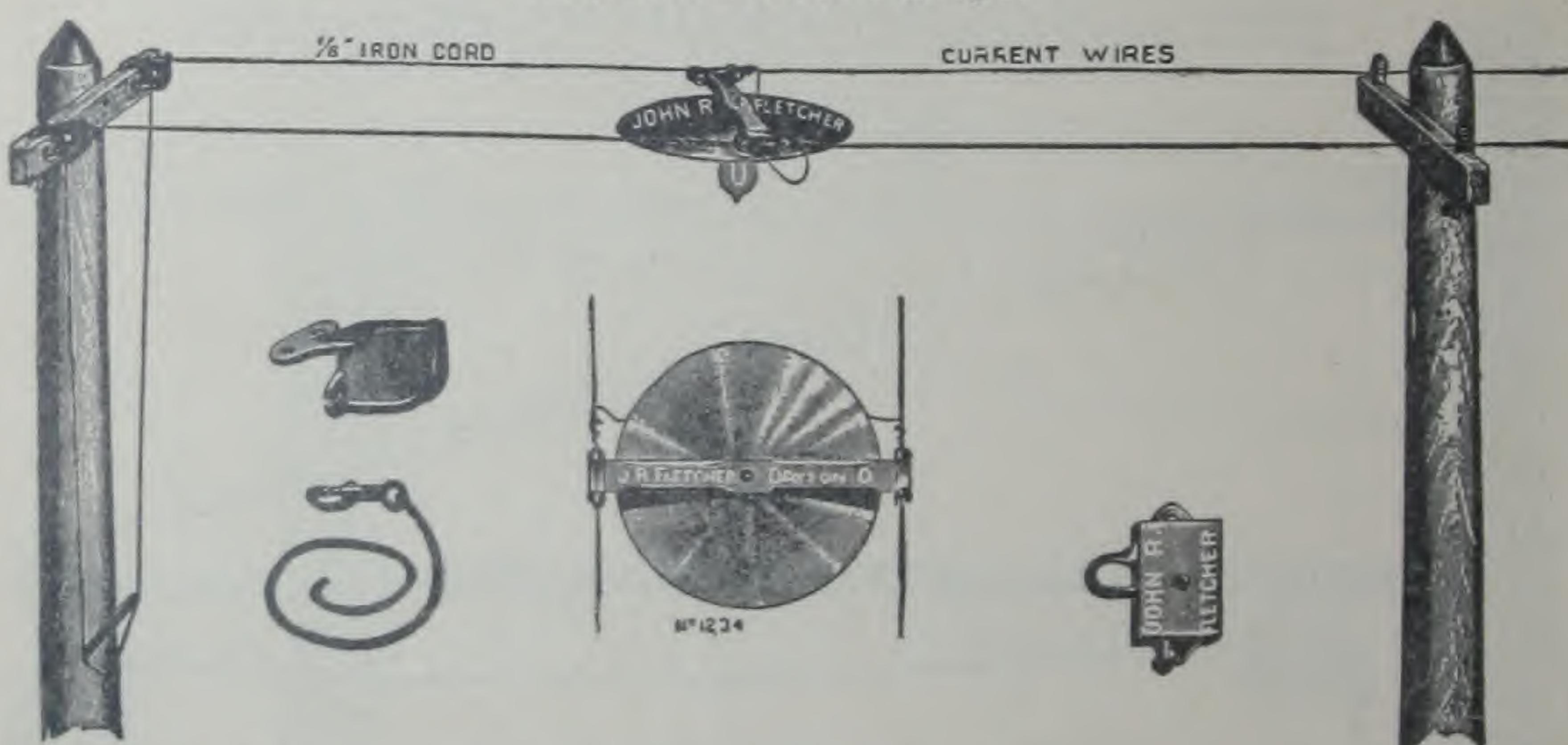
Fletcher's Incandescent Reflectors With Iron Cross-Arms and Pulleys.



No. 1234. Zinc Reflector (18 in.) with Insulated Stretcher (including Receptacle)	\$1 80
(Zinc Reflectors are practically indestructible)	
No. 1235. Tin Reflector (18 in.) with Insulated Stretcher (including Receptacle),	1 60
(Tin Reflectors good for about two years.)	
No. 1236. Set Iron Cross-Arms, with Pulleys, Knobs and Back Plate, as shown in cut.....	1 10
No. 962. Fletcher's Pole Lock	each, 35

We furnish special Porcelain Receptacles. Please state if for Edison, T-H., or Westinghouse Lamps. Cluster bodies furnished if desired.

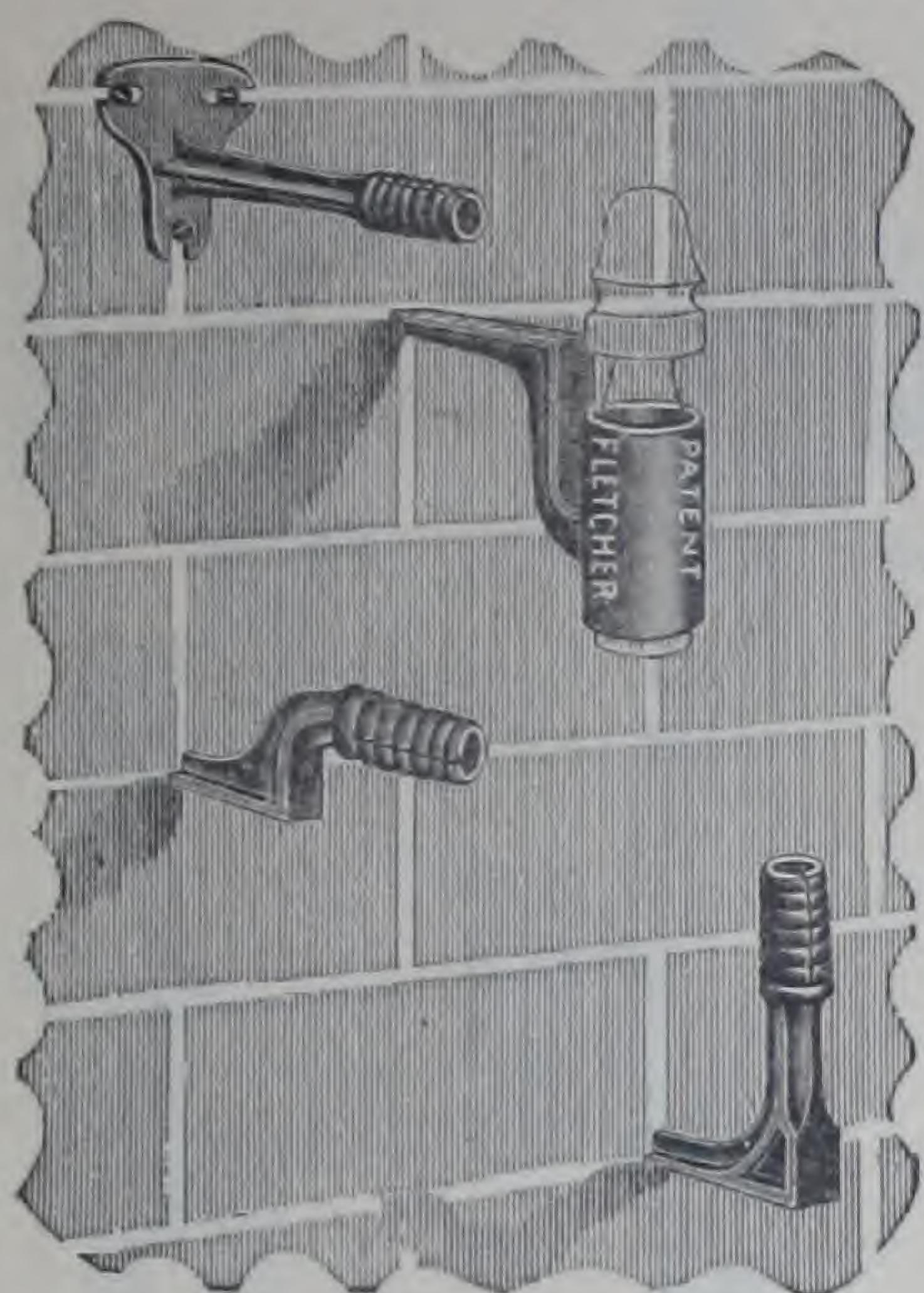
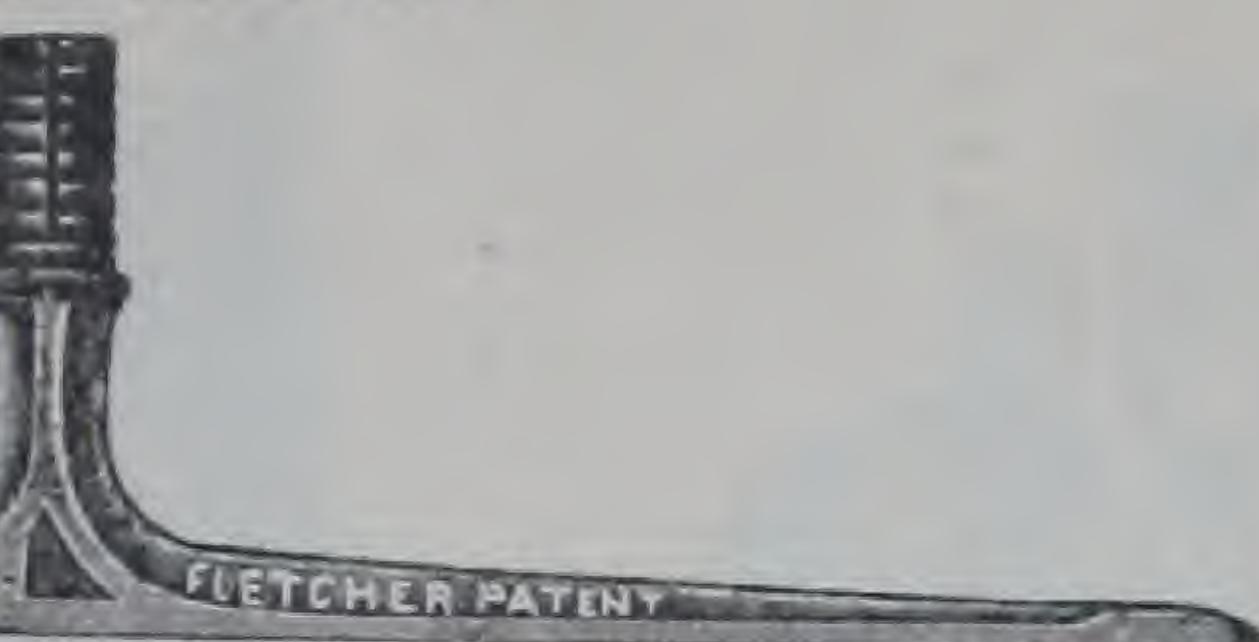
Fletcher's Incandescent Reflectors With Cross-Arm Pulleys.



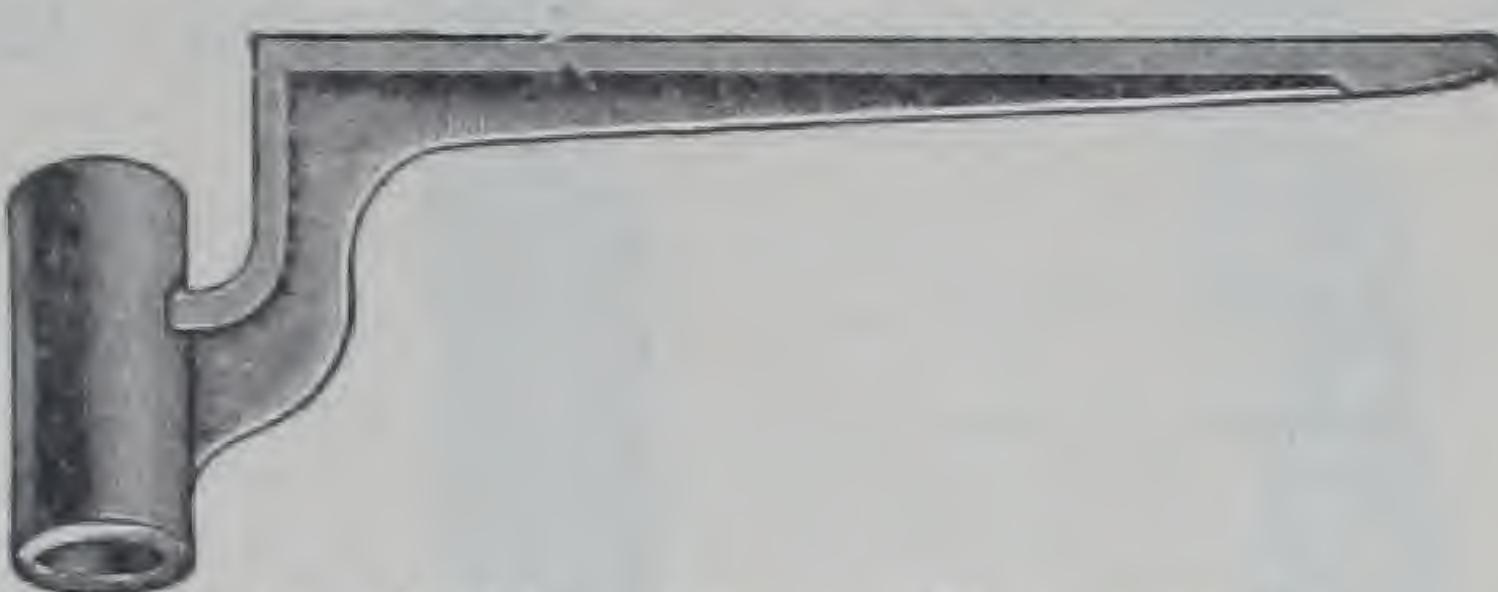
No. 1234. Zinc Reflector (18 in.) with Insulated Stretcher (including Receptacle),	\$1 80
(Zinc Reflectors are practically indestructible.)	
No. 1235. Tin Reflector (18 in.) with Insulated Stretcher (including Receptacle),	1 60
(Tin Reflectors good for about two years.)	
No. 928. Cross-Arm Pulleys.....	each, 25
No. 962. Fletcher's Pole Lock.....	each, 35

We furnish special Porcelain Receptacles. Please state if for Edison, T-H., or Westinghouse Lamp. Cluster bodies furnished if desired.

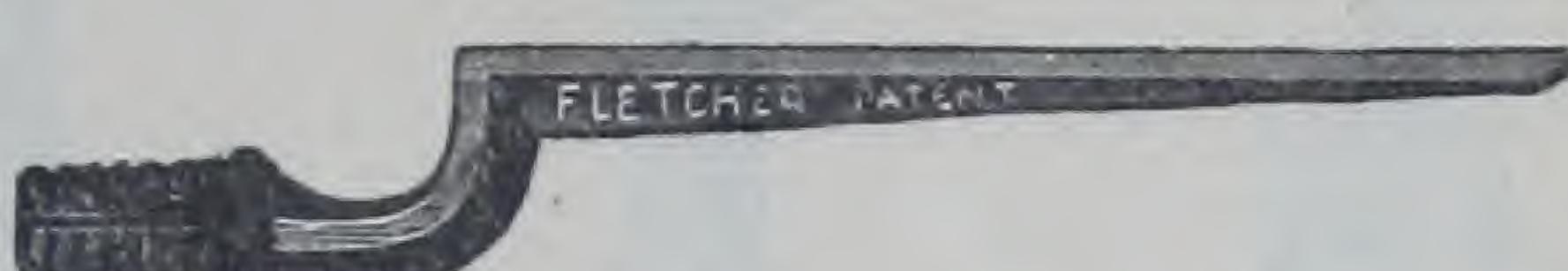
Fletcher's Malleable Iron Sundries.

No. 2009.
9c.

No. 1022. 10c. (Patented.)



No. 1024. 16c. (Patented.)



No. 1023. 10c. (Patented.)



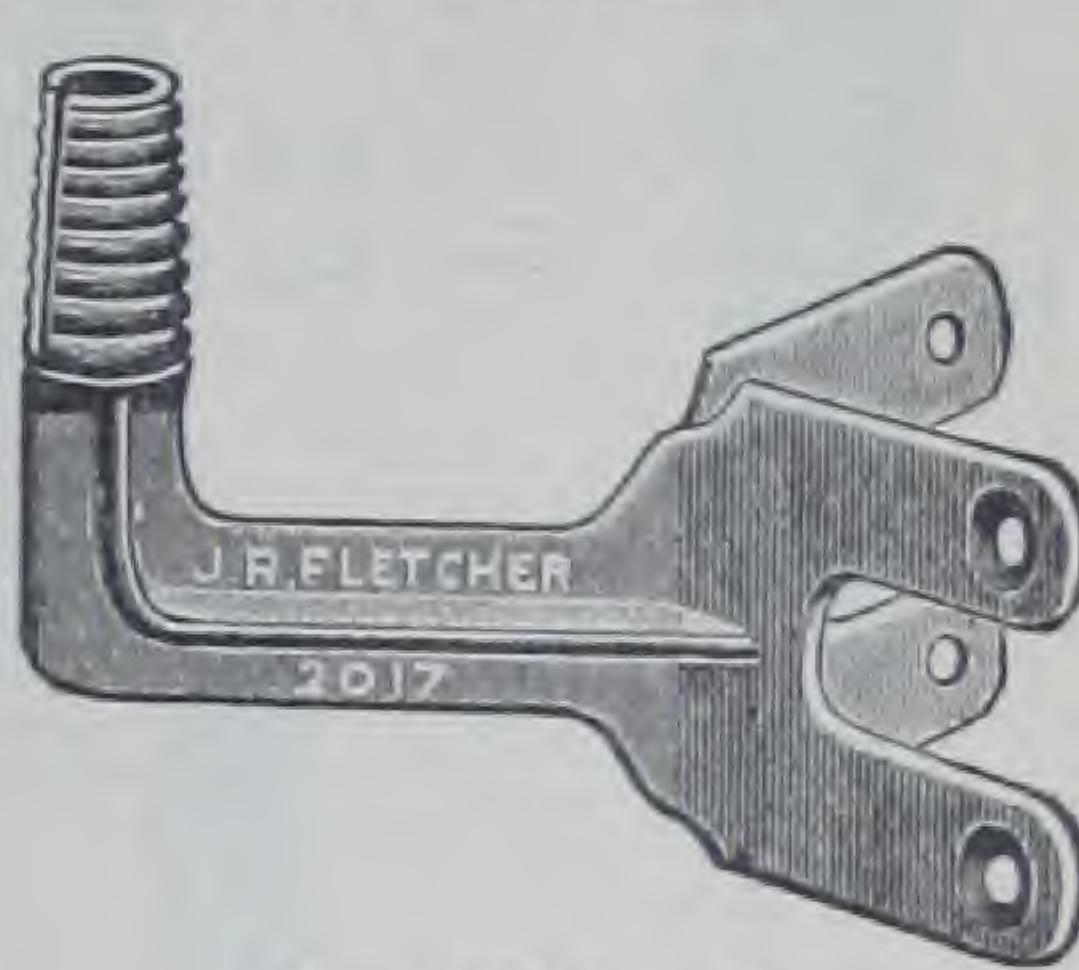
No. 1020 M. 9c



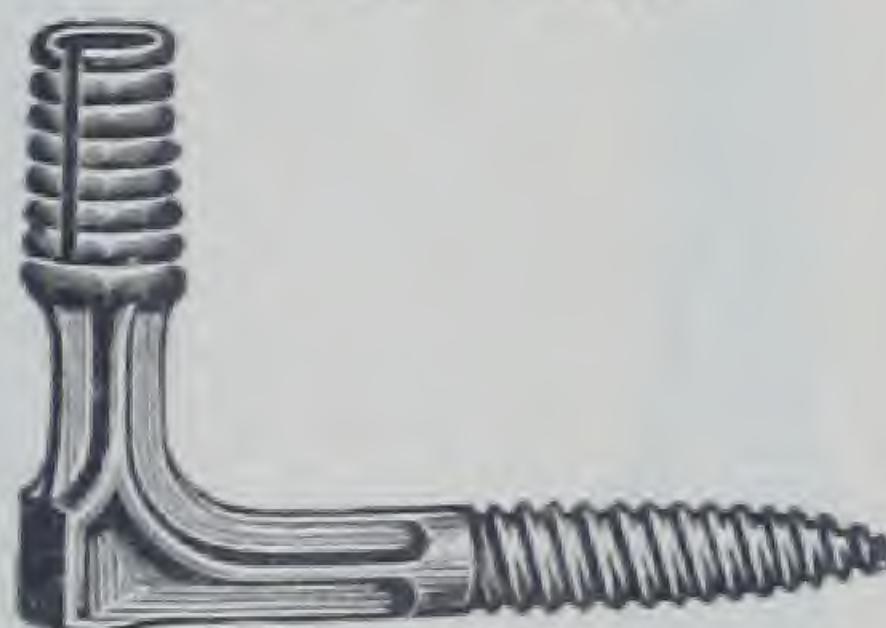
No. 1029. 18c.



No. 1021. 7c.

No. 924.
20c.

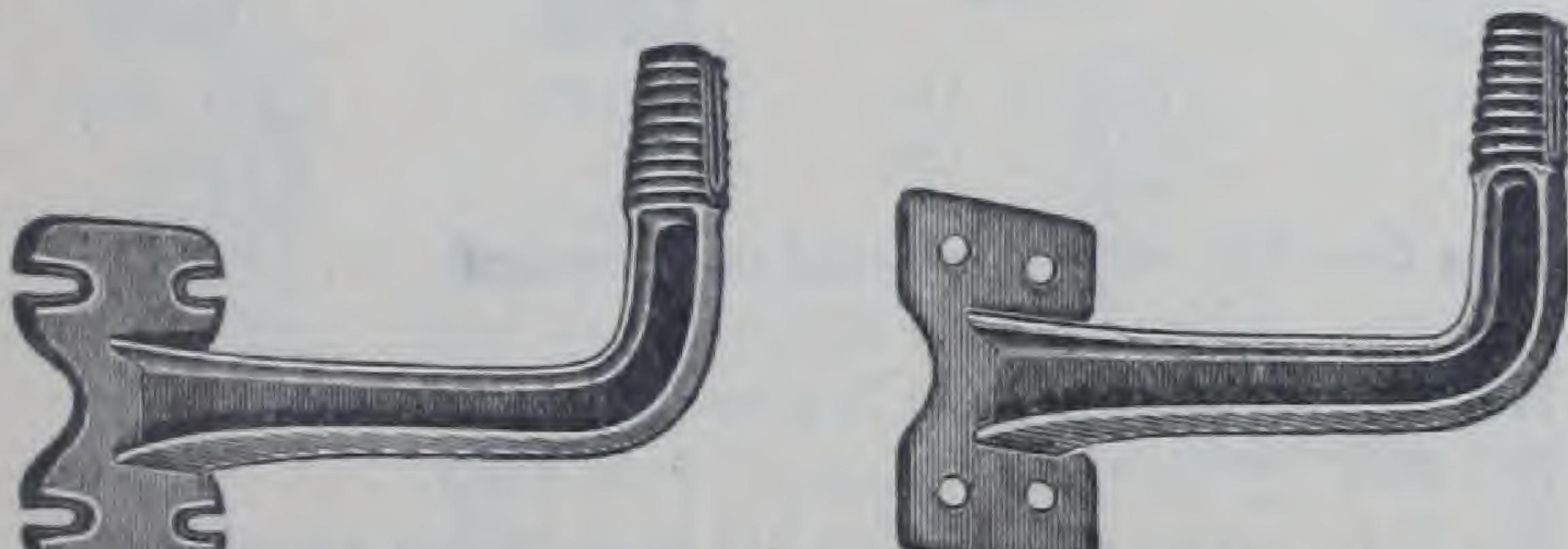
No. 2017. 16c.



No. 1025. 10c.



No. 1026. 8c.

No. 922.
14c.

No. 1038. 15c.

No. 1039. 17c.

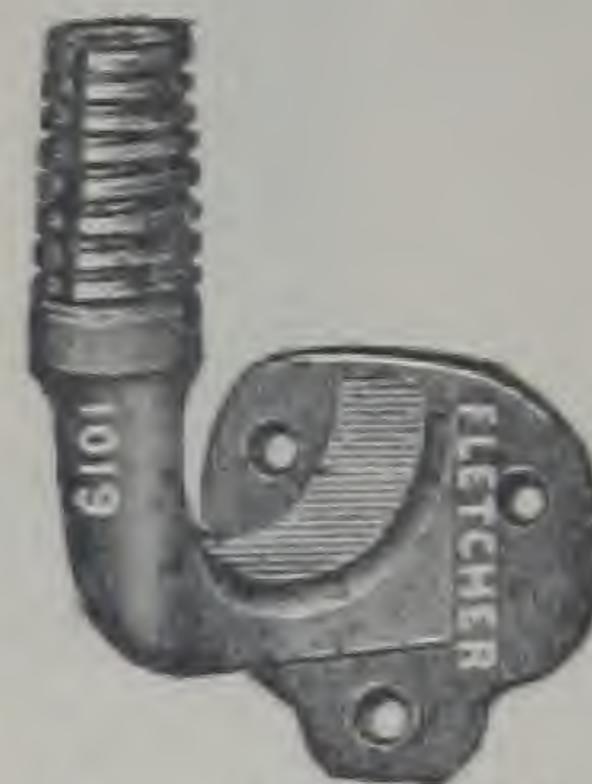
- No. 920. Malleable Pins, 5 inches above cross arm.
 No. 922. Malleable Pins, 8½ inches above cross arm.
 No. 924. Malleable Pins, 1½ inches.
 No. 1029. Malleable Brackets for heavy feeder wires.
 No. 2017. Malleable Corner Brackets for light work.

No. 920.
10c.

Fletcher's Iron Pins and Brackets.



No. 1018. 10c.



No. 1019. 12c.



No. 1028. 10c.



No. 903. 9c.

No. 918
20c.No. 901. 24c.
No. 902. 24c.

No. 999. 15c

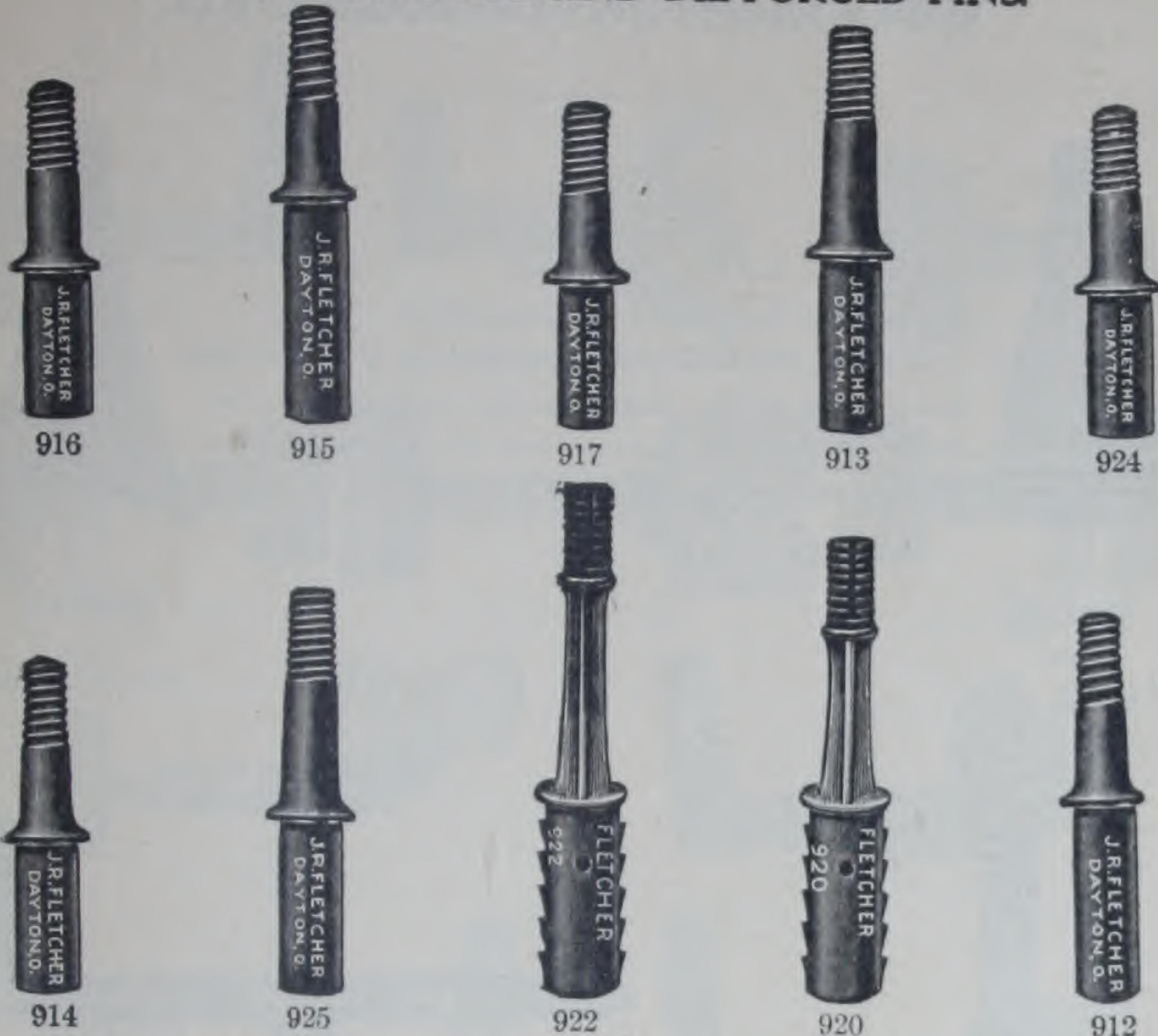


No. 907. 15c.

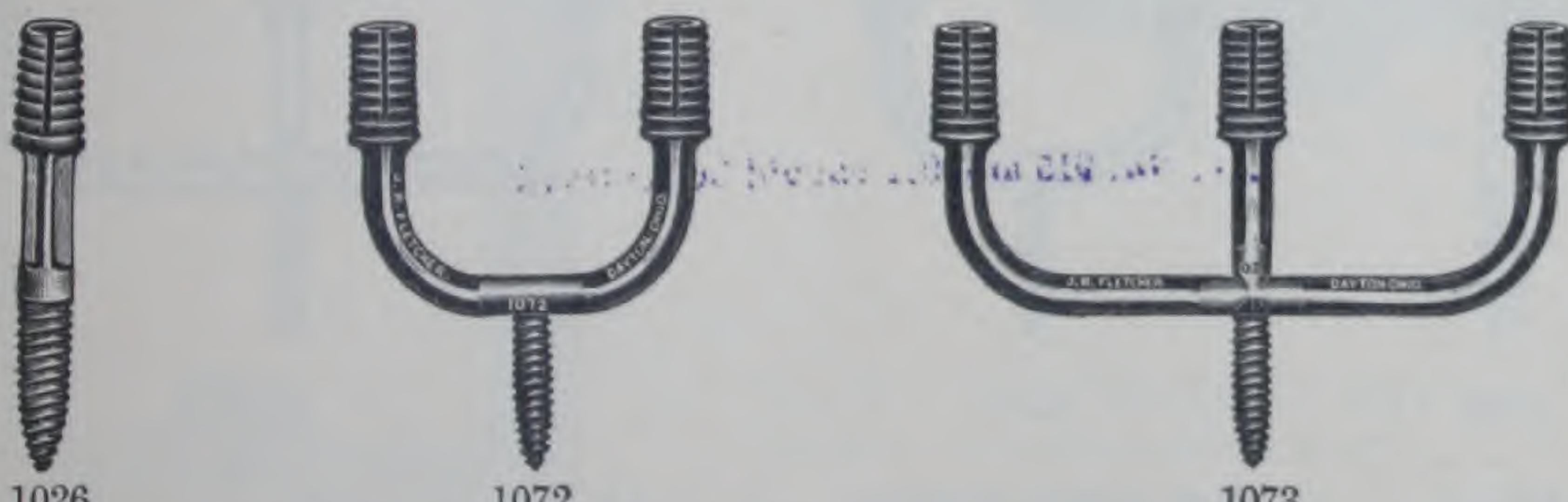
No. 919.
18c.No. 914.
30c.No. 915.
32c.No. 916. 15c.
No. 917. 15c.No. 917. 15c.
Mall.No. 920.
10c.
Mall.No. 924.
20c.
Mall.**Cats No. 915 and 917 should be reversed.**

- No. 901. Thimble Pole Bracket, 1½ inch.
- No. 902. Thimble Pole Bracket, 1¼ inch.
- No. 903. Fletcher's "Fancy" Pole Step.
- No. 914. Drop-Forge Pin, 3½ inch below shoulder.
- No. 915. Drop-Forge Pin, 5 inches below shoulder.
- No. 916. Pin, 1½ inch butt.
- No. 917. Pin, 1¼ inch butt.
- No. 924. Solid Mall. Pin, 1½ inch butt.
- No. 1028. Bracket has curved pole plate.

IRON, MALLEABLE AND DIE-FORGED PINS.



No.	Quality.	Butt.	Below Shoulder.	Above Shoulder.	Price
912.....	Die Forge.....	1½ inch.....	4½ inch.....	4⅓ inch.....	.31
913.....	Iron.....	1½ ".....	4 ".....	5½ ".....	.18
914.....	Die Forge.....	1½ ".....	3¾ ".....	4¾ ".....	.30
915.....	Die Forge.....	1½ ".....	5 ".....	4¾ ".....	.32
916.....	Iron.....	1½ ".....	3¾ ".....	4⅓ ".....	.15
917.....	Iron.....	1¼ ".....	3¼ ".....	4¼ ".....	.15
920.....	Mall.....	1½ ".....	3¾ ".....	4¾ ".....	.10
922.....	Mall.....	1½ ".....	3¾ ".....	7¾ ".....	.14
924.....	Mall.....	1½ ".....	3¾ ".....	4½ ".....	.20
925.....	Mall.....	1½ ".....	4 ".....	5½ ".....	.22



1026.....	Mall. Screw Bracket.....	1 Pin.....	.08
1072.....	Mall. Screw Bracket.....	2 Pin.....	.15
1073.....	Mall. Screw Bracket.....	3 Pin.....	.23

CROSS-ARM BRACKETS.



No. 926. 18c.

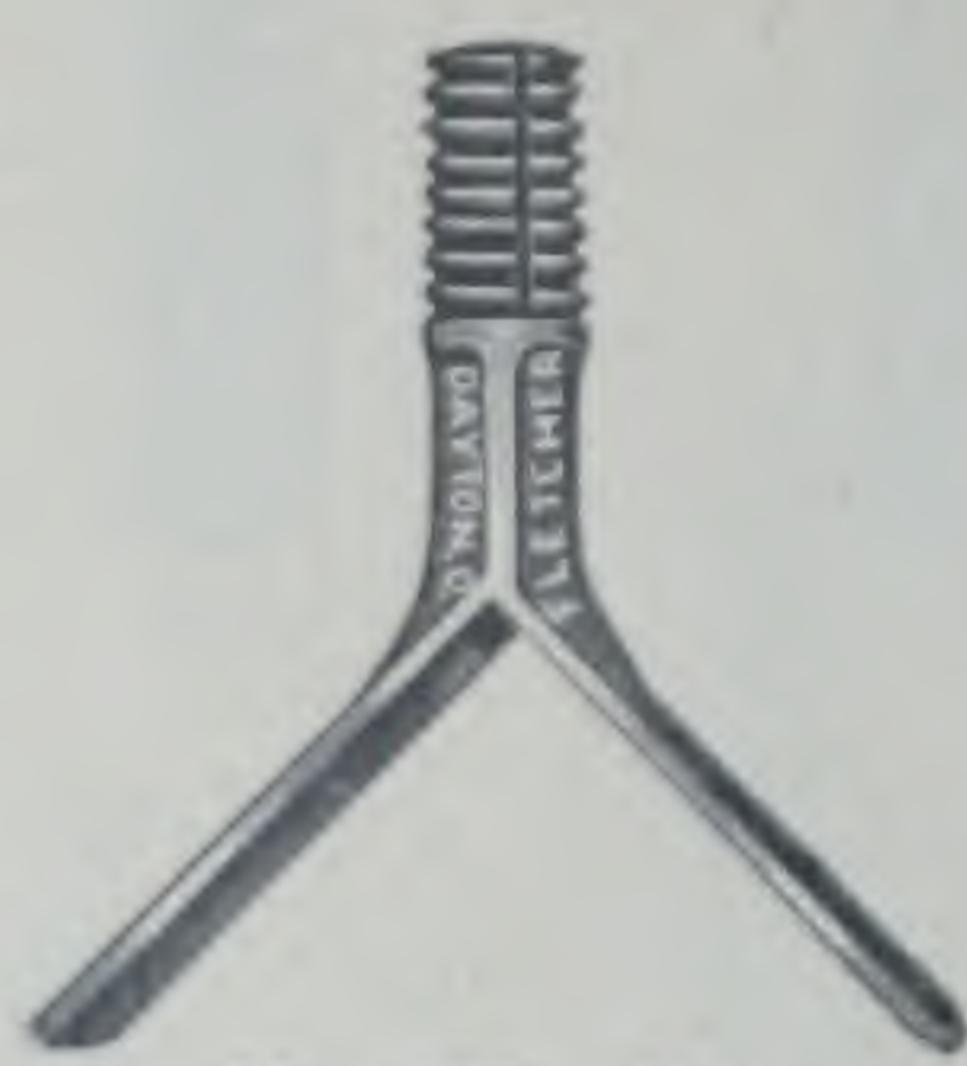


No. 927. 19c.

No. 926. For flat Cross-Arms.

No. 927. For curved top Cross-Arms.

Both No. 926 and 927 are threaded for $\frac{3}{4}$ inch stud bolts. The prices named do not include the stud bolts, but we can furnish them of any length, including nut and washer, if desired.



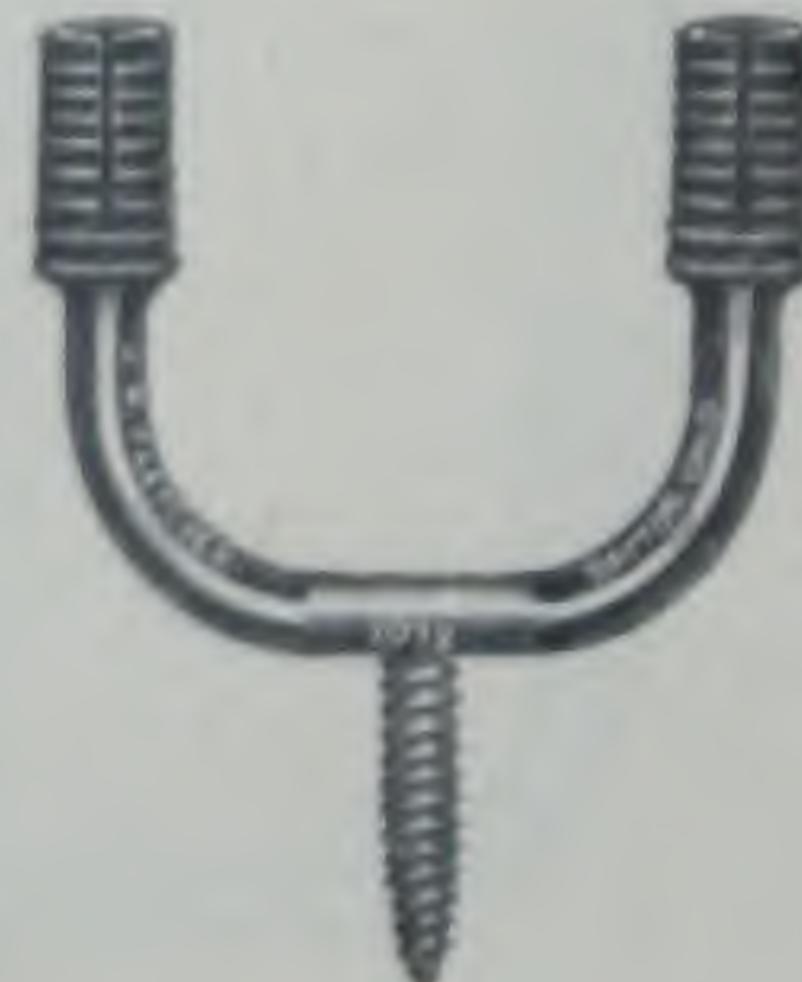
No. 998. 13c.



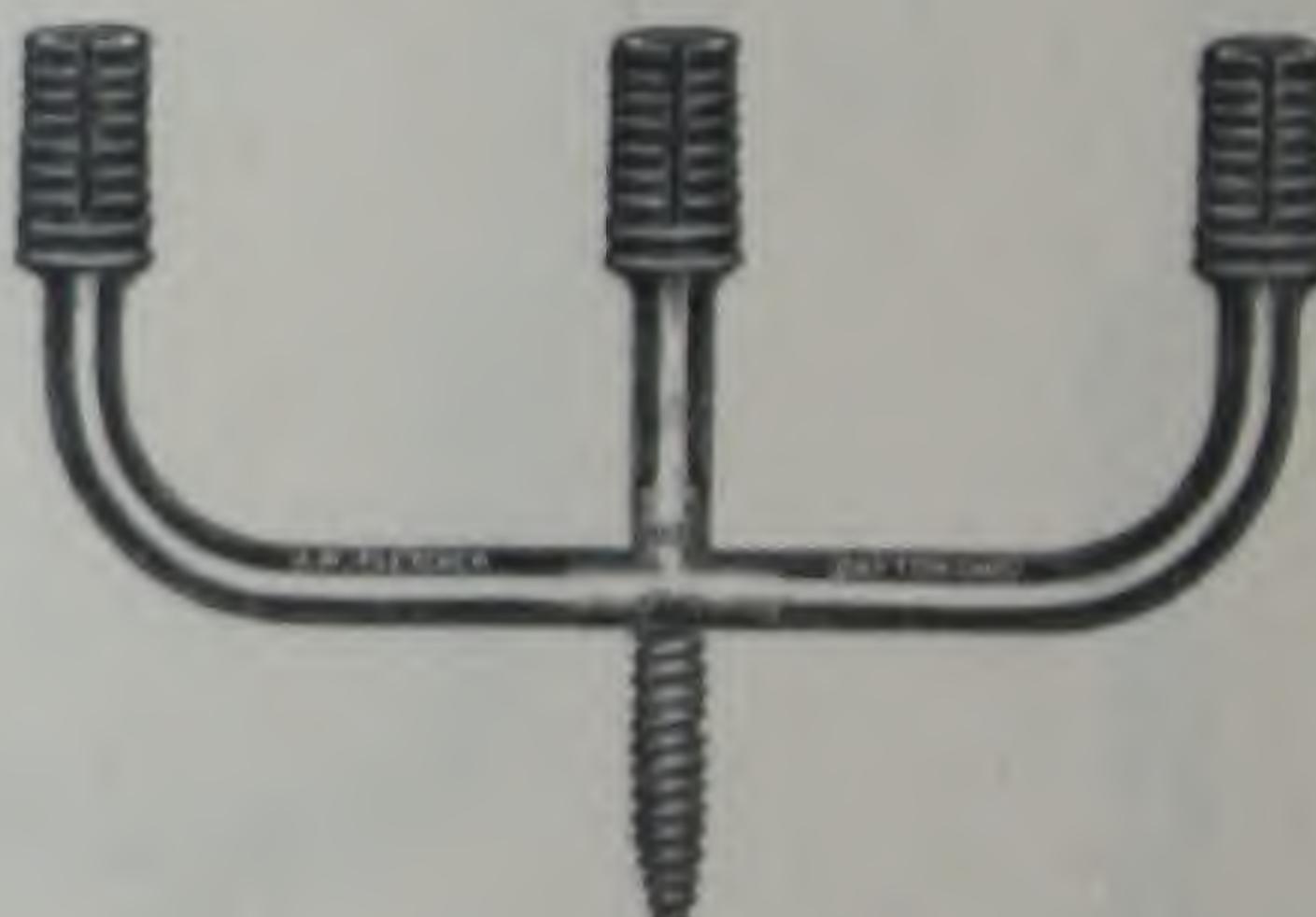
No. 1003. 27c.



1026



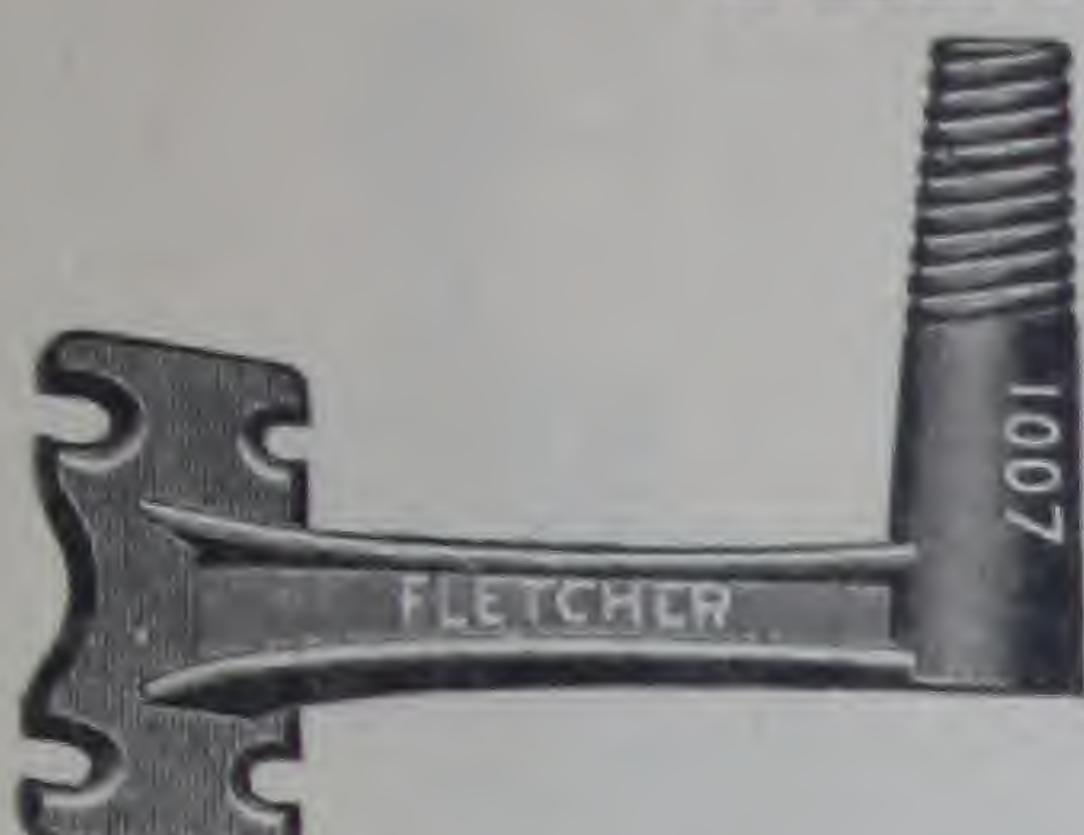
1072



1073

1026.....	Mall. Screw Bracket.....	1 Pin.....	08
1072.....	Mall. Screw Bracket.....	2 Pin.....	15
1073	Mall. Screw Bracket.....	3 Pin.....	23

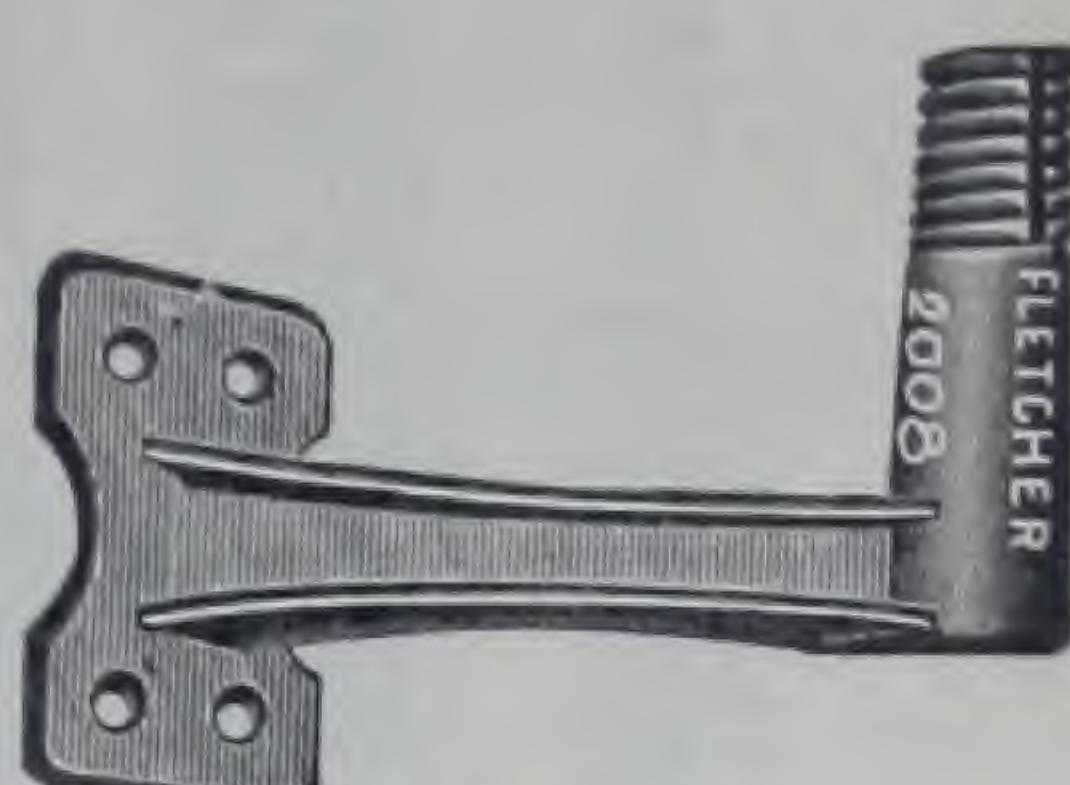
FLETCHER'S IRON BRACKETS.



No. 1007. 14c.



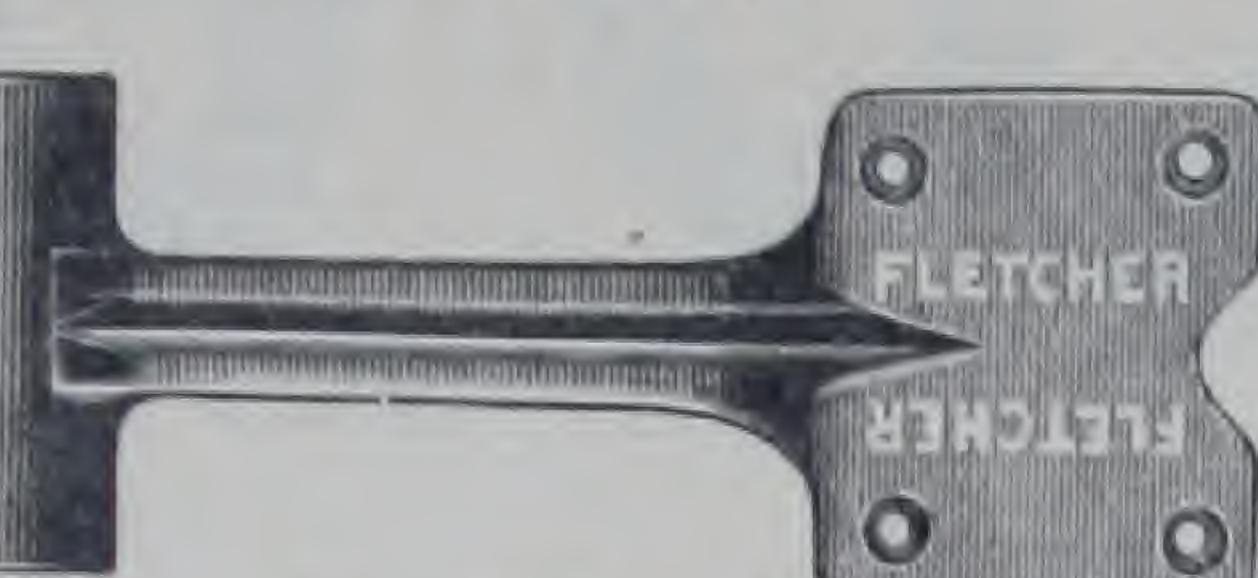
No. 1027. 23c.



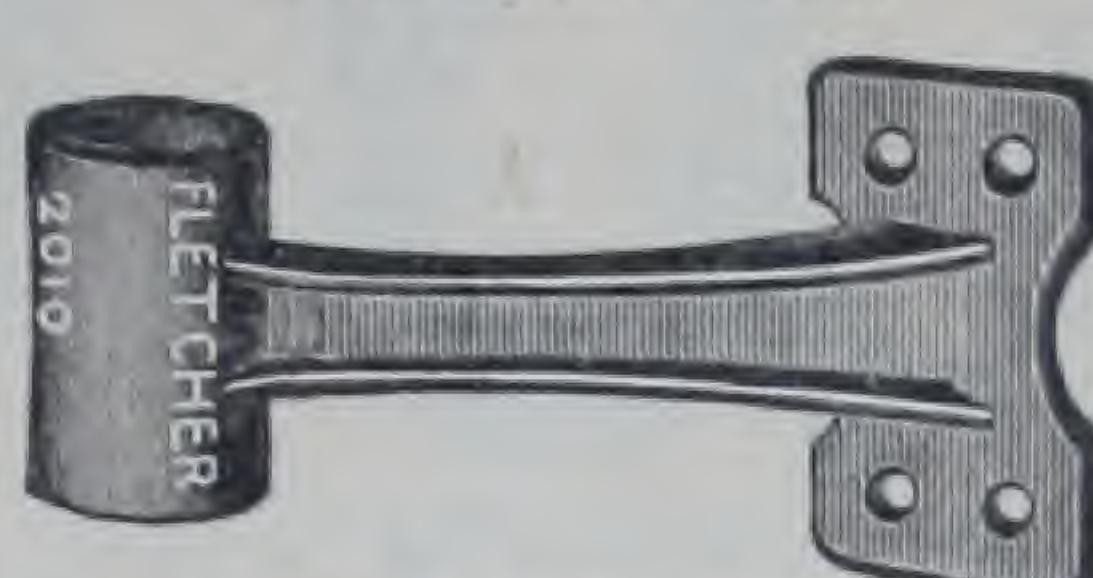
No. 2008. 16c.



No. 2007. 15c.



No. 2011. 18c.



No. 2010. 16c.



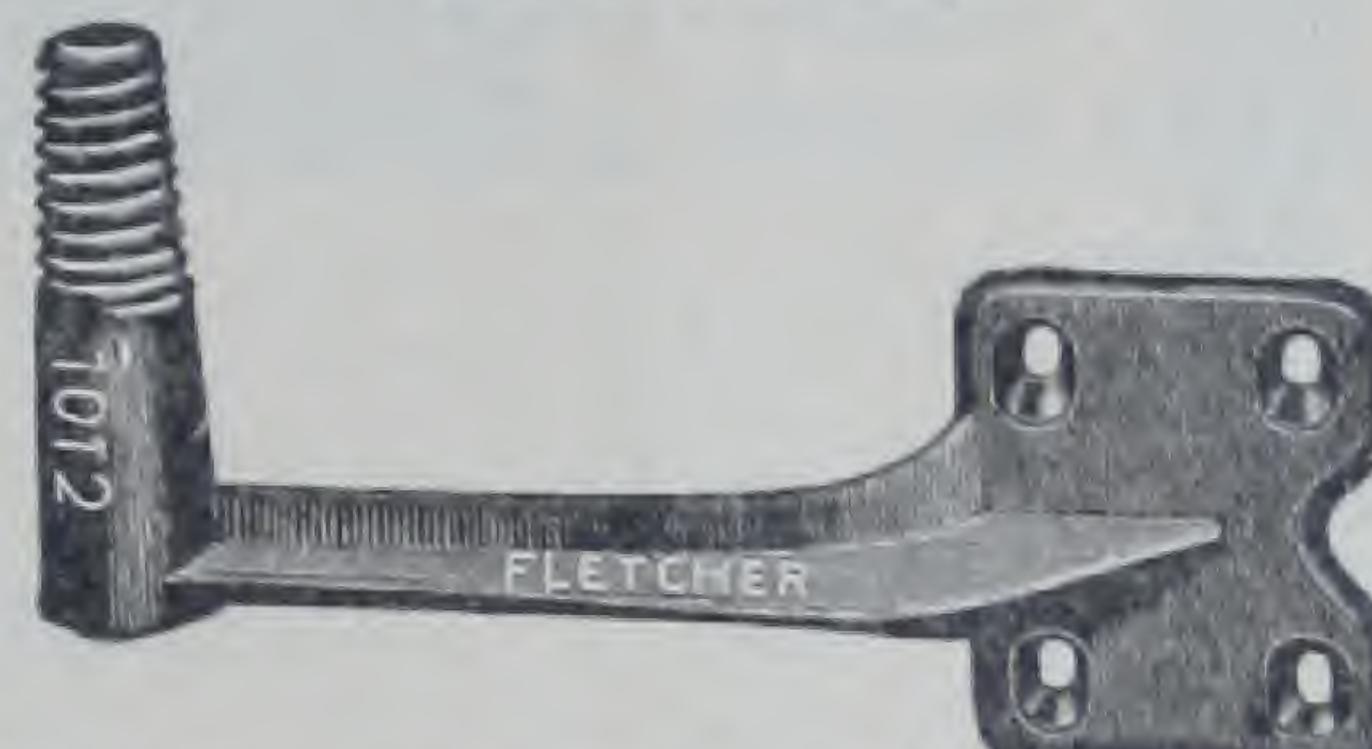
No. 1030. 20c.



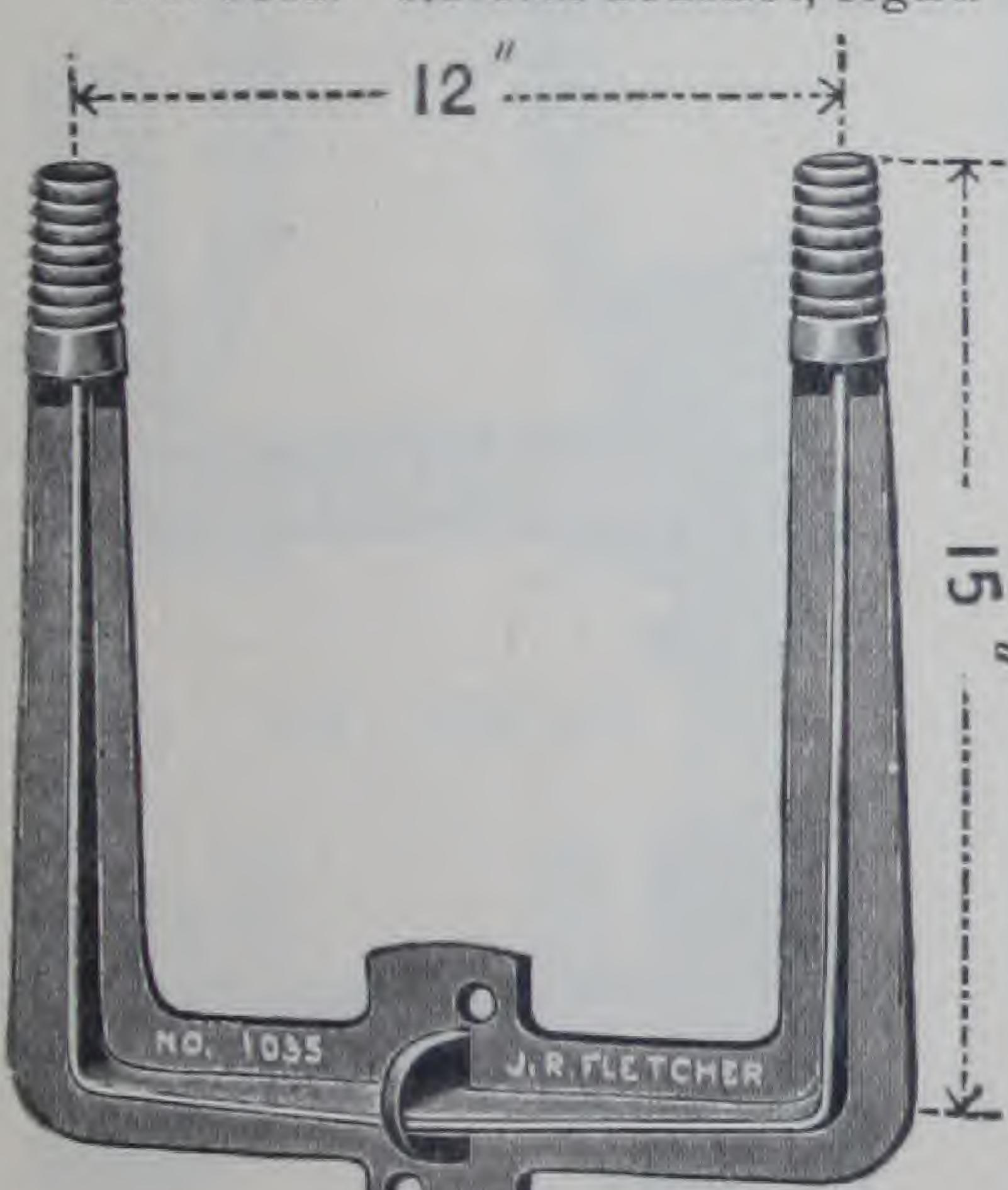
No. 1010. 20c.



No. 1011. Lateral Bracket, right. 18c.



No. 1012. Lateral Bracket, left. 18c.

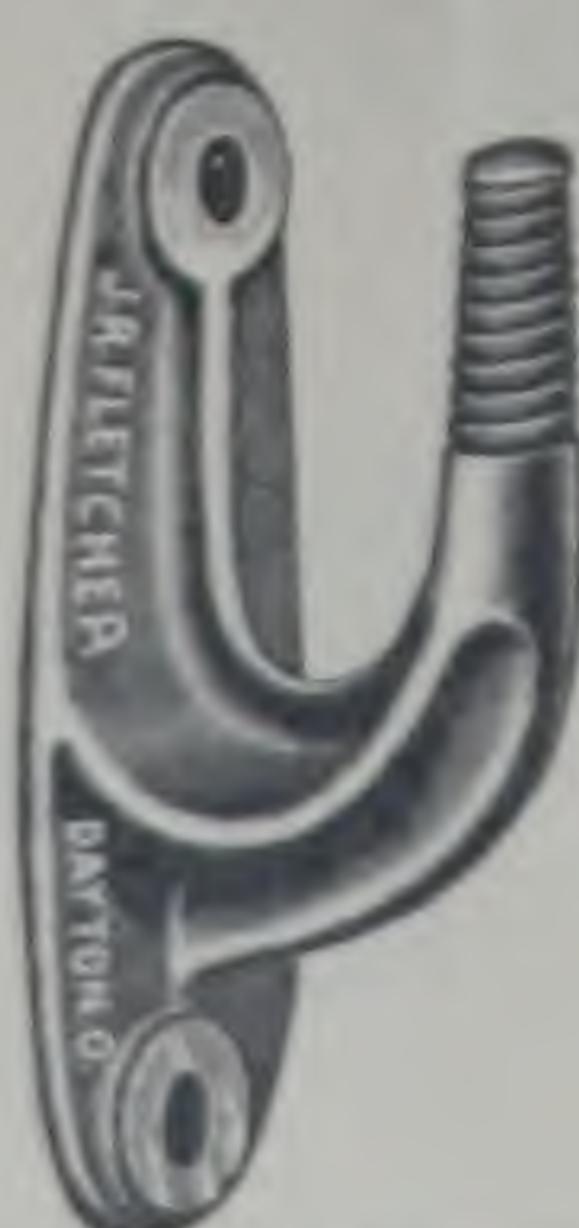


No. 1035. 45c.



No. 1015. 24c.

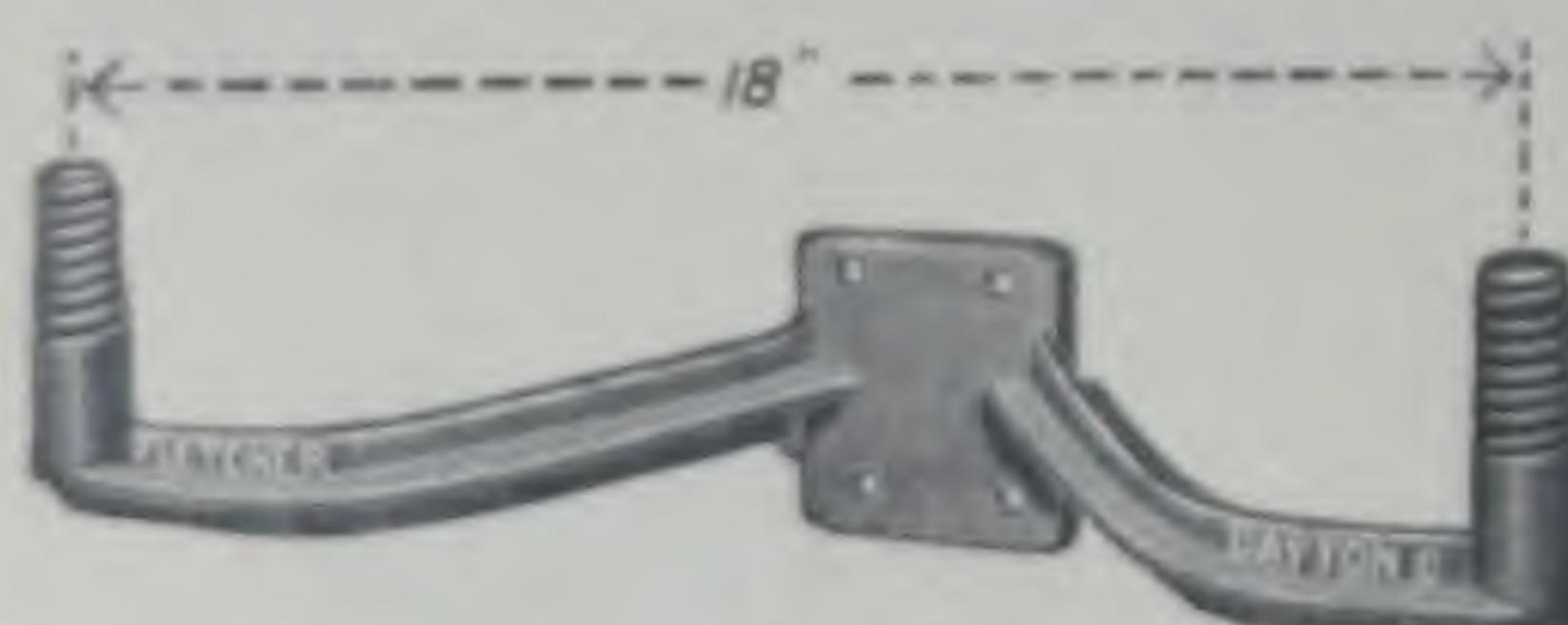
- No. 1027. Corner Bracket for heavy wear.
 No. 2011. For either right or left.
 No. 1015. Spread 12 inches, Arms 4½ inches.
 No. 1035. Spread 12 inches, Arms 15 inches.



No. 1070. (Kopeck.) 32c.
Extra heavy Cables Bracket.



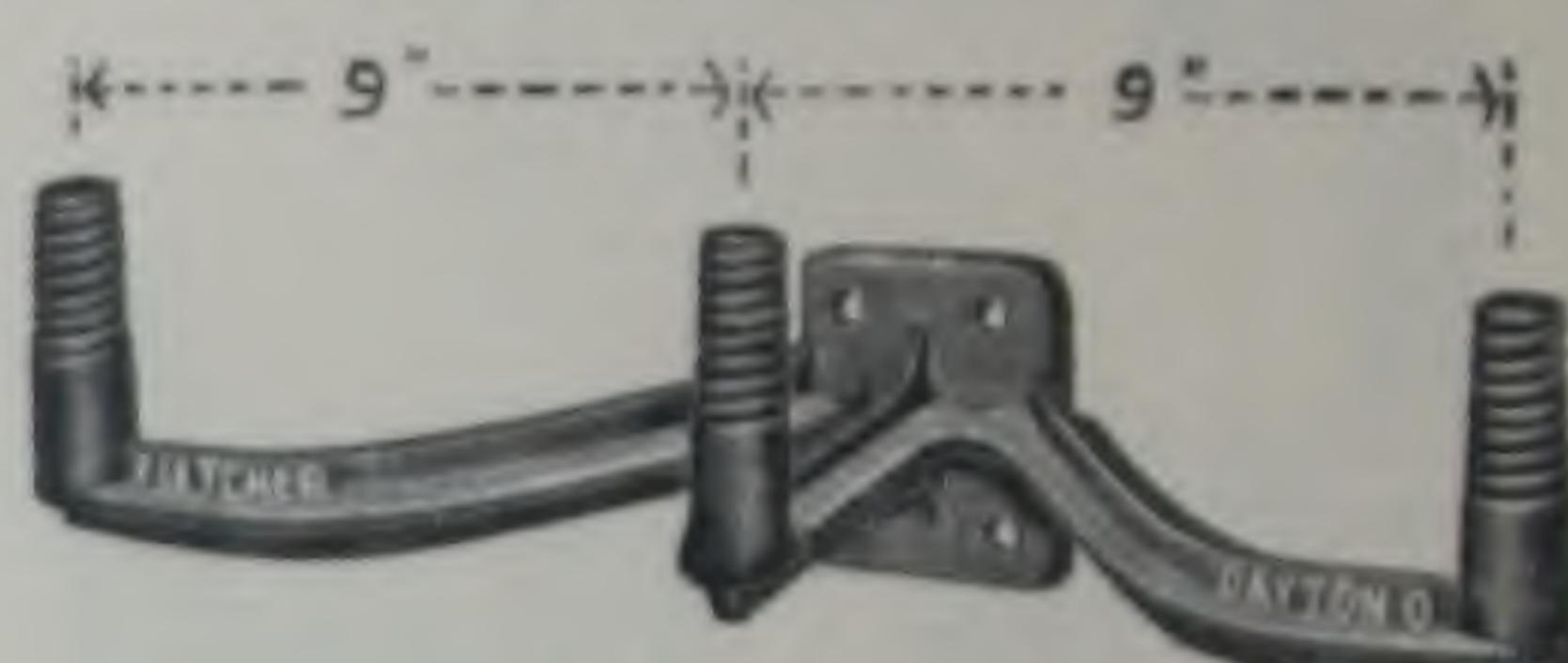
No. 2027. Corner Bracket, 26c.
1 1/2 inch Thimble.



No. 1056. 42c.

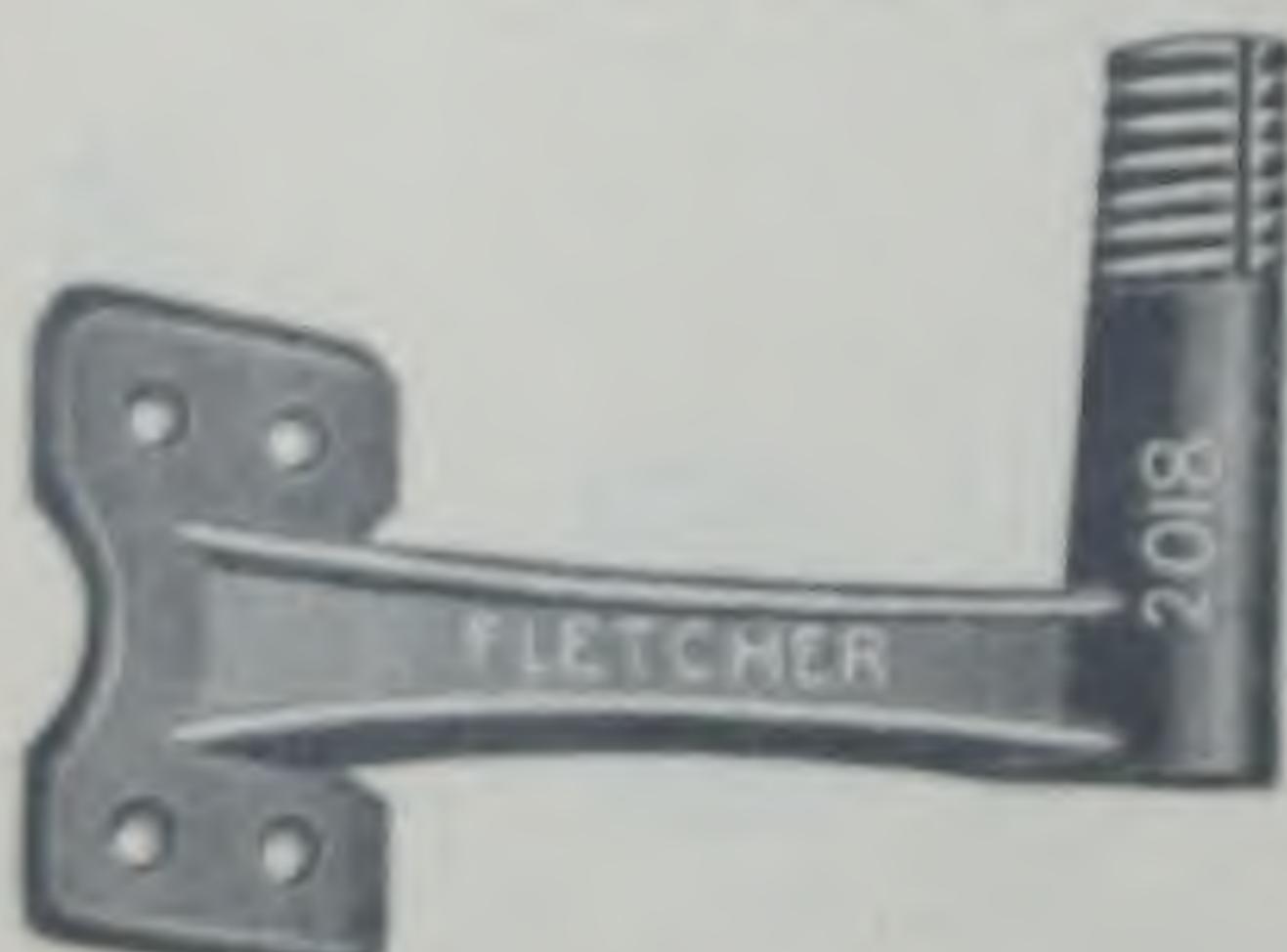
No. 1056. 2-point Bracket, is amply strong
to sustain heavy wires or cables.

No. 1057. 3-point bracket, is of equal
strength with No. 1056, and will support any
desired weight.



No. 1057. 50c.

Extra Large Brackets—Ten-inch Extension.



No. 2018. 28c.



No. 2019. 28c.

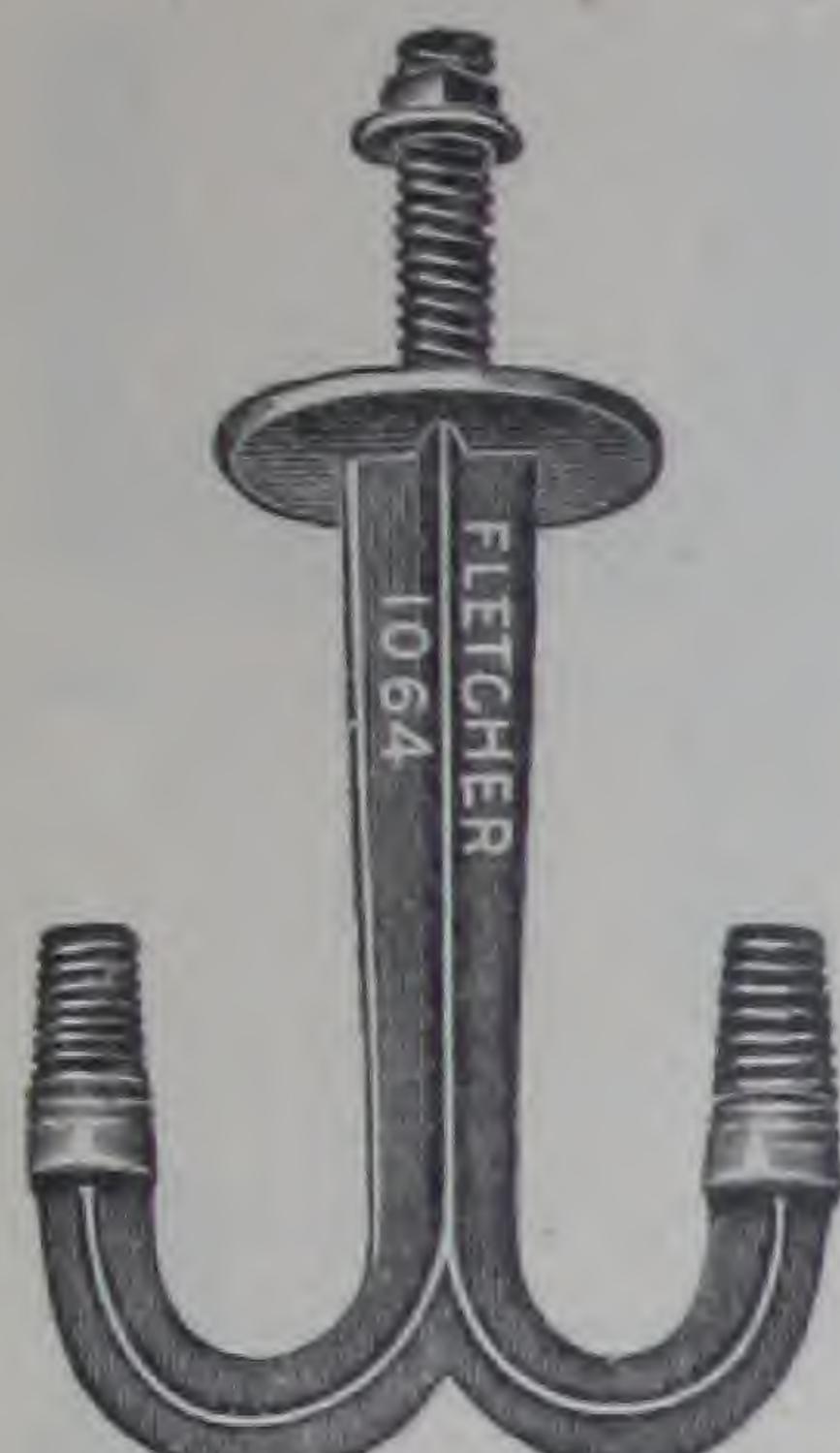


No. 2020. 28c.



No. 2021. 28c.

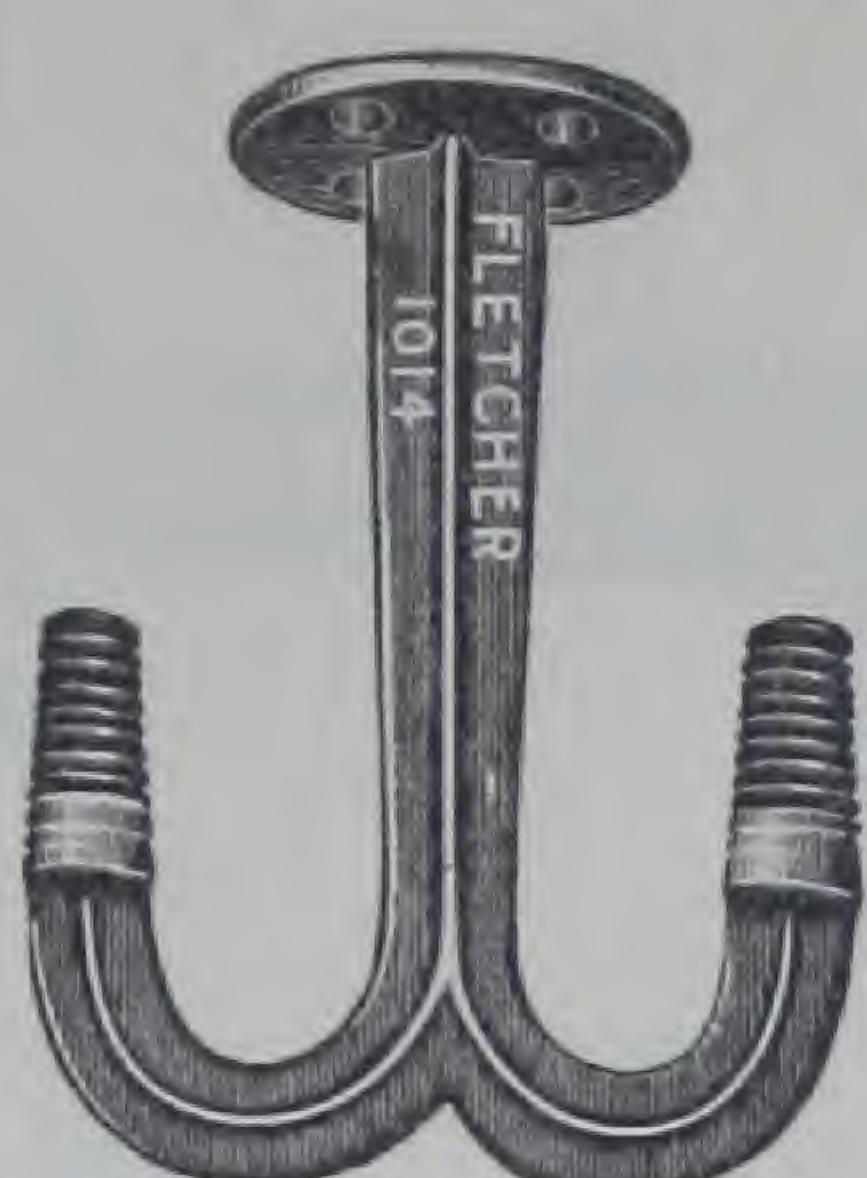
Fletcher's High Insulation Brackets.



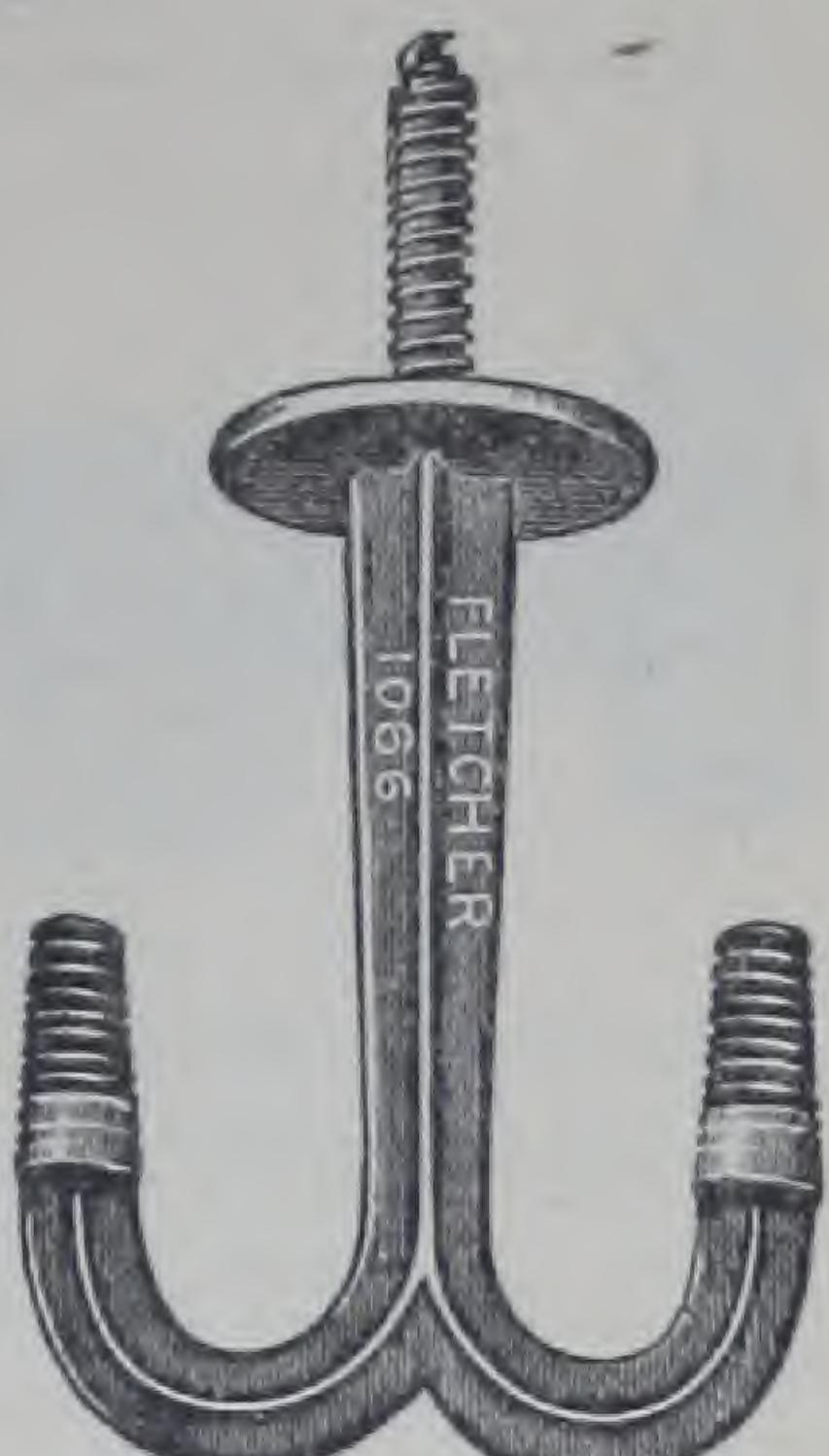
No. 1064. 24c.



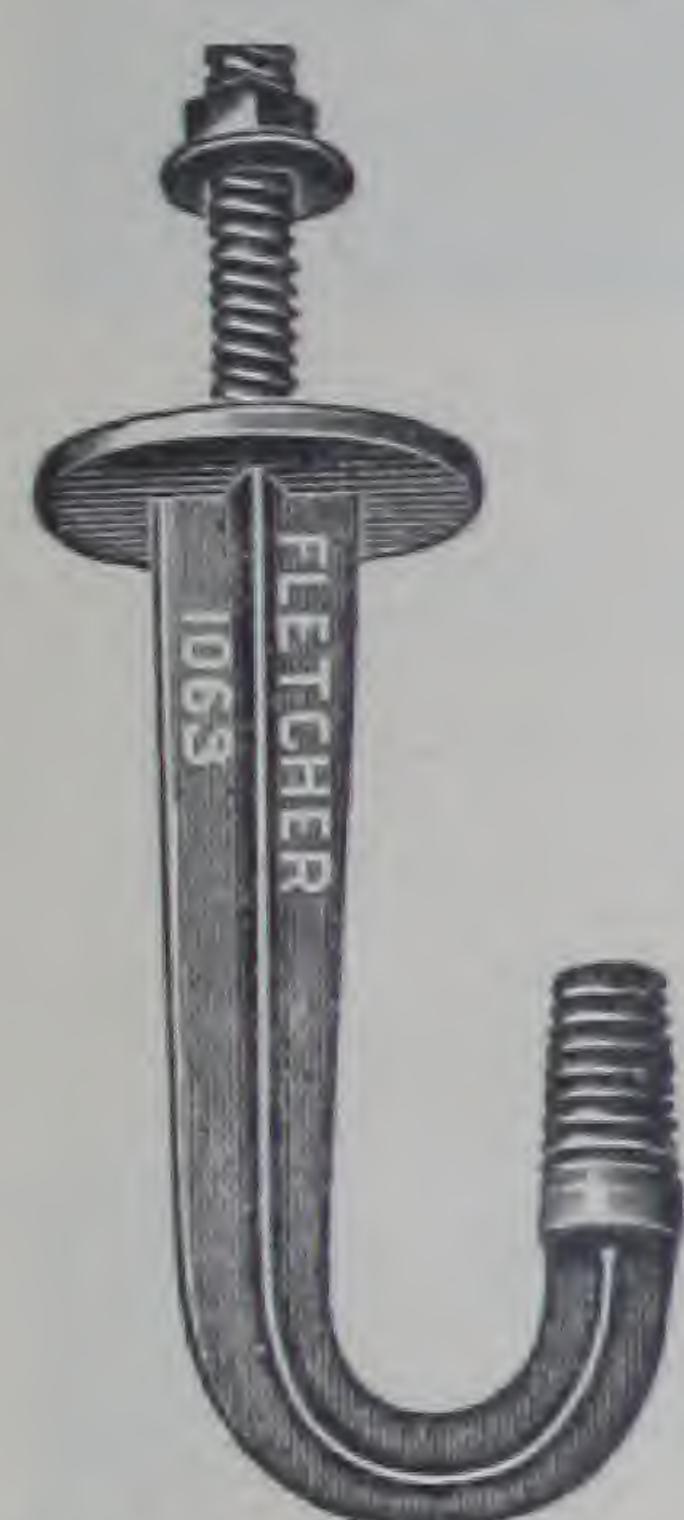
No. 1013. 20c.



No. 1014. 24c.



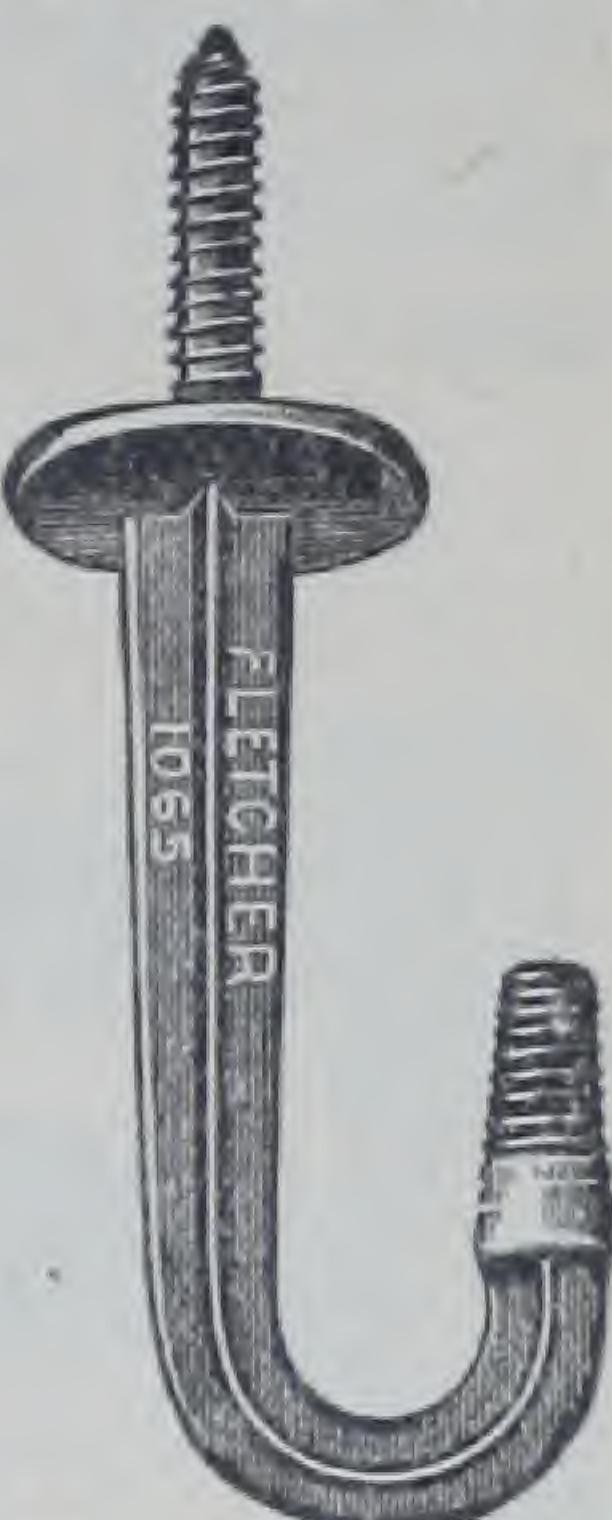
No. 1066. 24c.



No. 1063. 20c.



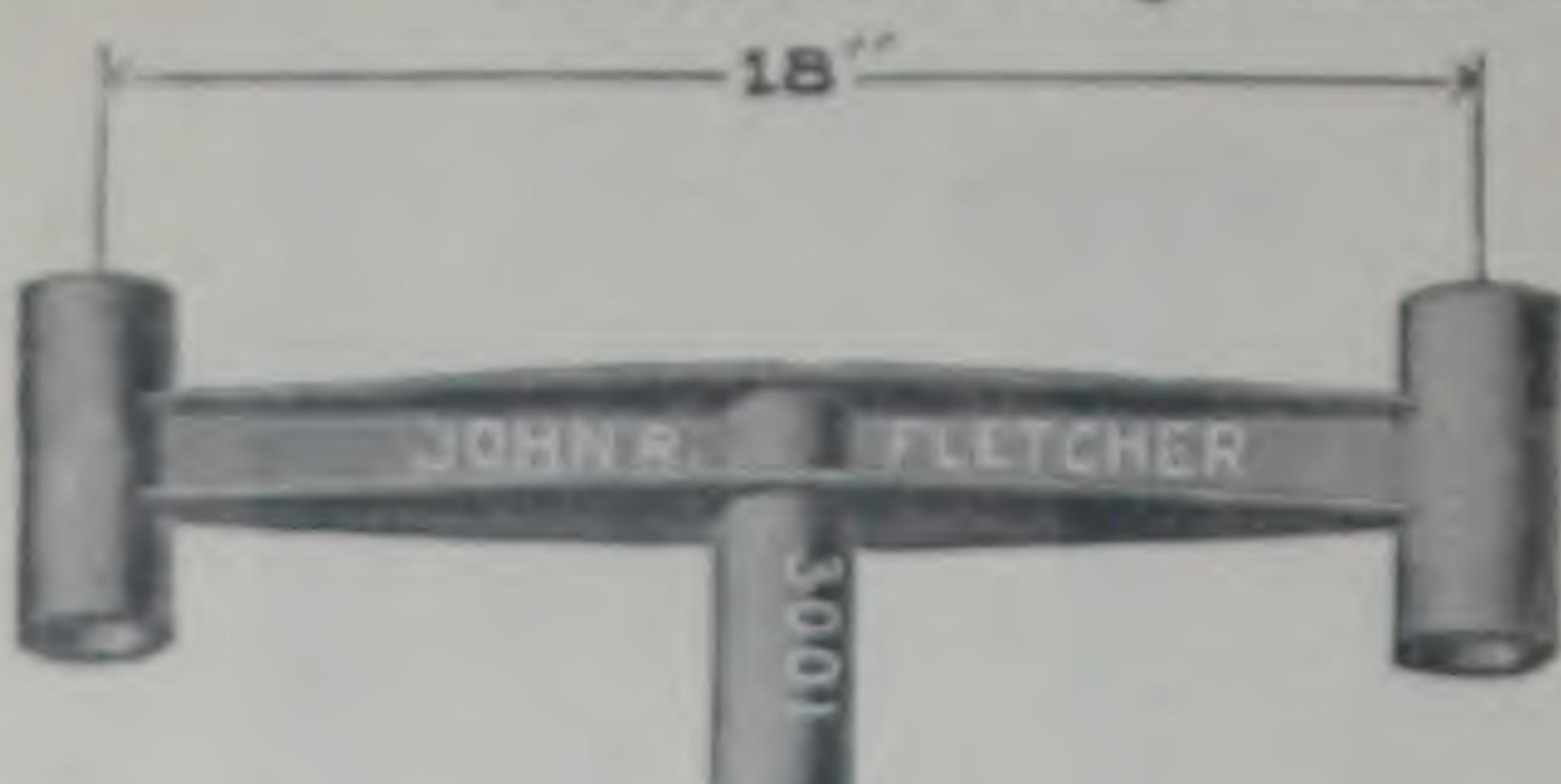
No. 1008. 20c.



No. 1065. 20c.

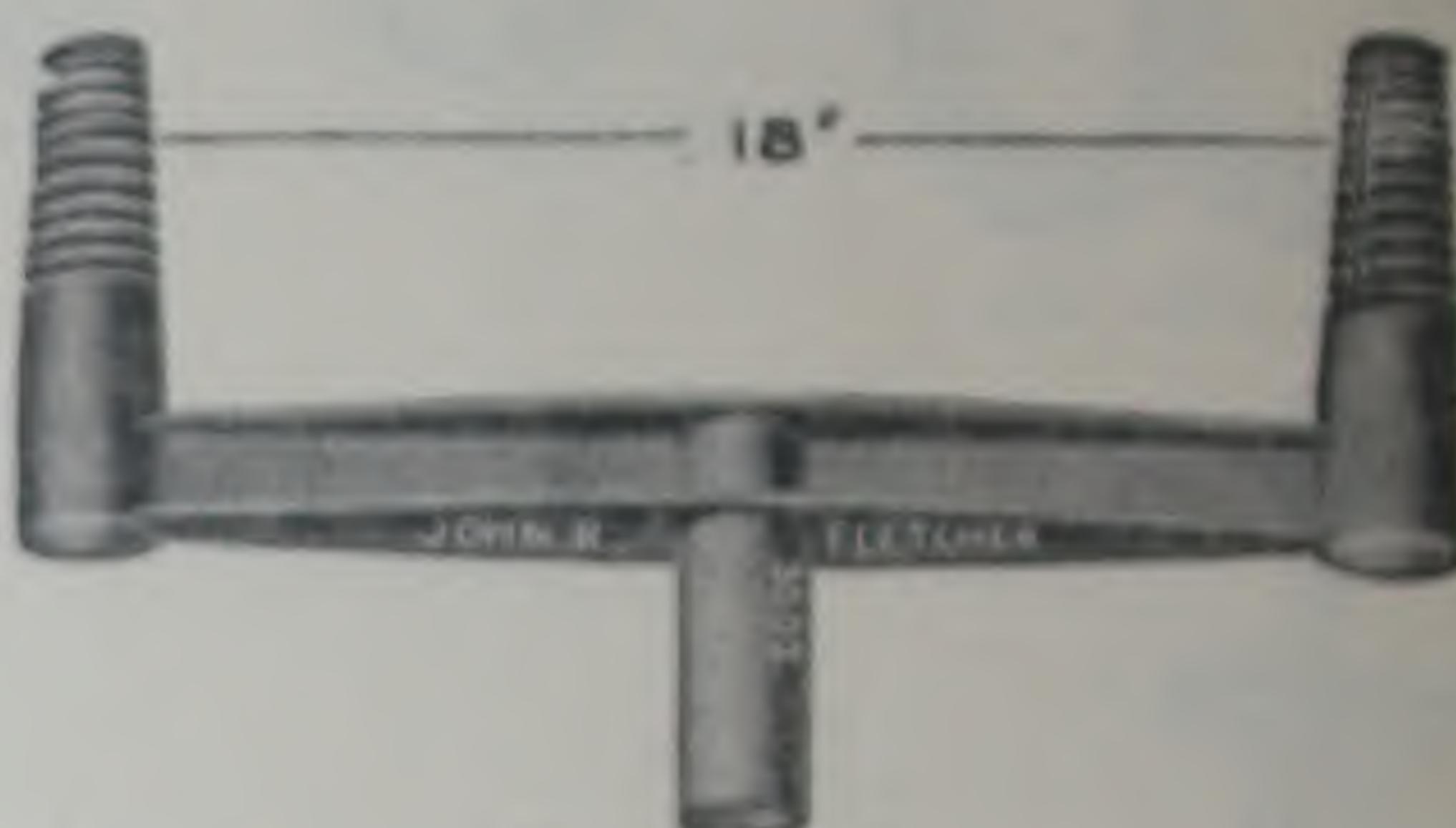
No. 1004.
30c.No. 1005.
30c.No. 1006.
30c.No. 1036.
30c.No. 1037
30c.

Fletcher's "High Insulation" Break-Arms.

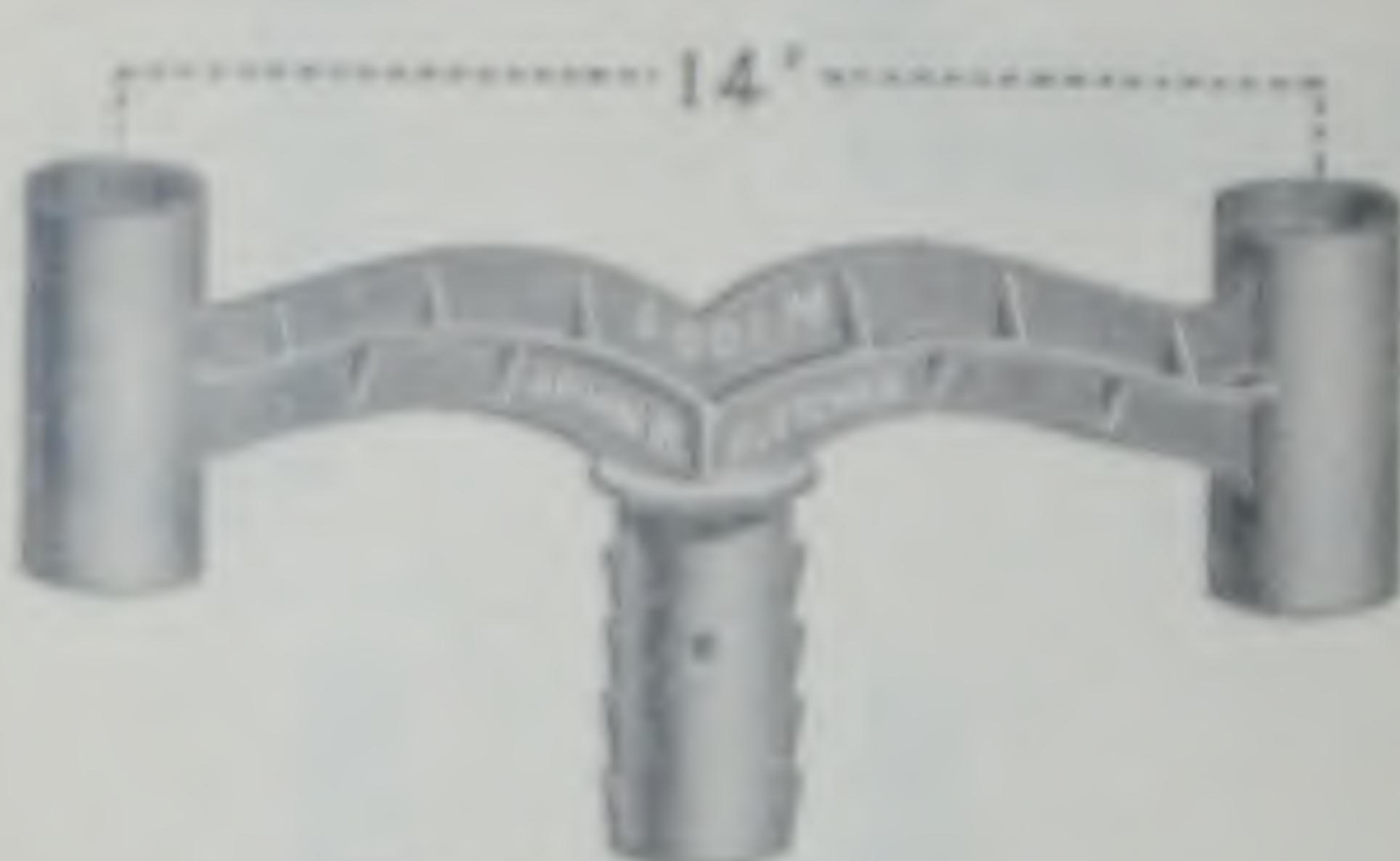


No. 3001. 49c.

No. 3001. 1½ inch stem and 1½
thimbles.....49c
No. 3002. 1½ inch stem, each...40c



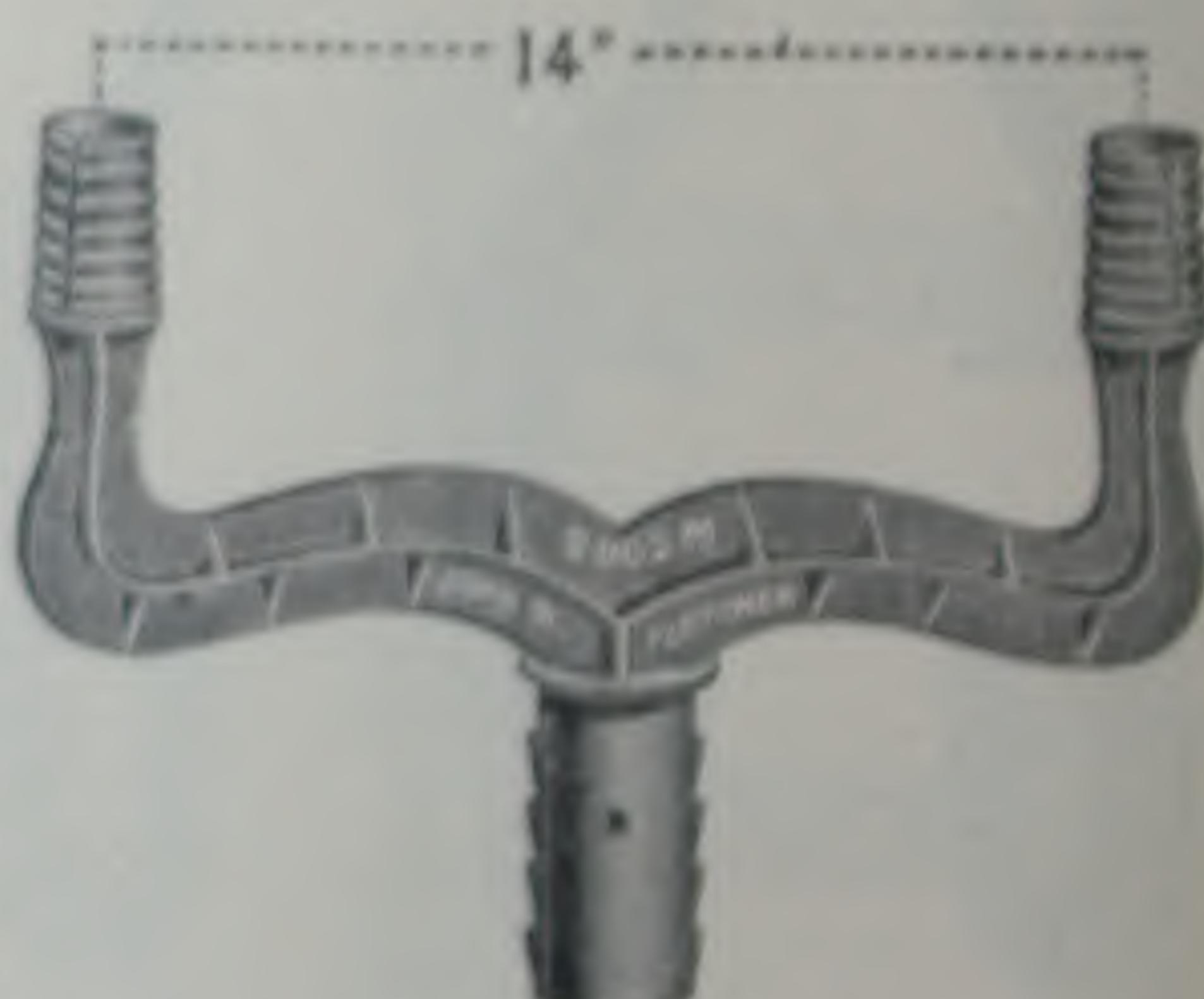
No. 3002. 40c.



No. 2001. 39c.

Please note remarks below in refer-
ence to the No. 2001 and 2002 Fletcher
Malleable Break-Arms.

No. 2001 and 2002 Fletcher Malleable
Break-Arms are superior to all others
by reason of their being re-enforced
between the center stem, heads and
thimbles. The price being no greater
than ordinary gray iron break-arms, is
a special inducement for their use.



No. 2002. 36c.

Fletcher's "High Insulation" Break-Arms.



No. 1017. 28c.
Spread 12 in., Arms 4½ in.



No. 1016. 28c.

No. 1016. Fletcher's Reflector
Bracket has a spread of 12 inches
and uprights 4½ inches.



Nos. 1001, 1031, 1033 and 1034. 32c.

No. 1001. 1½ in. Thimbles, 1½ in. Stem.
No. 1031. 1¾ in. Thimbles, 1⅓ in. Stem.
No. 1033. 1½ in. Thimbles, 1½ in. Stem.
No. 1034. 1½ in. Thimbles, 1½ in. Stem.



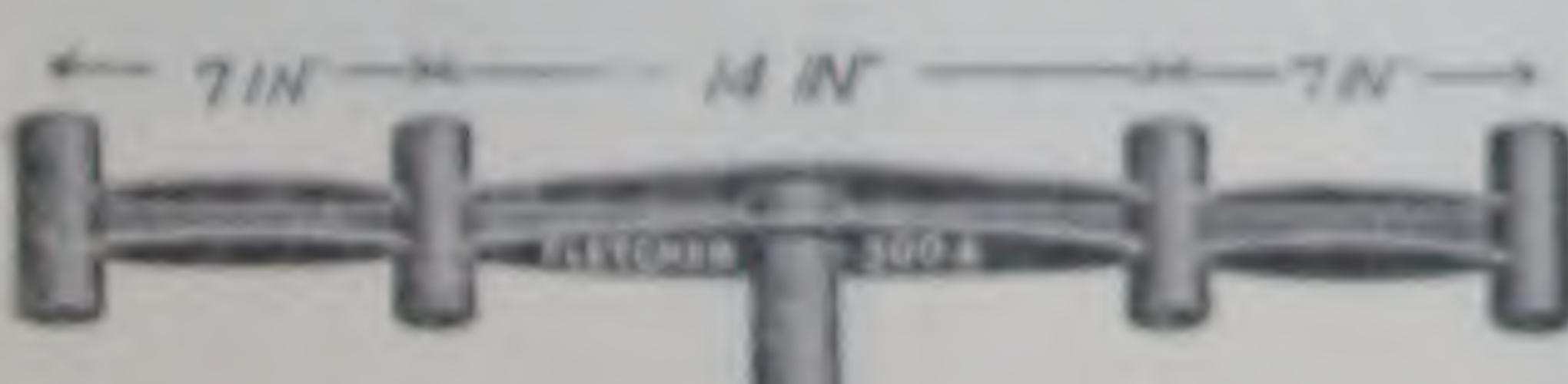
Nos. 1002 and 1032. 30c.
No. 1002. 1½ inch Stem.
No. 1032. 1¼ inch Stem.



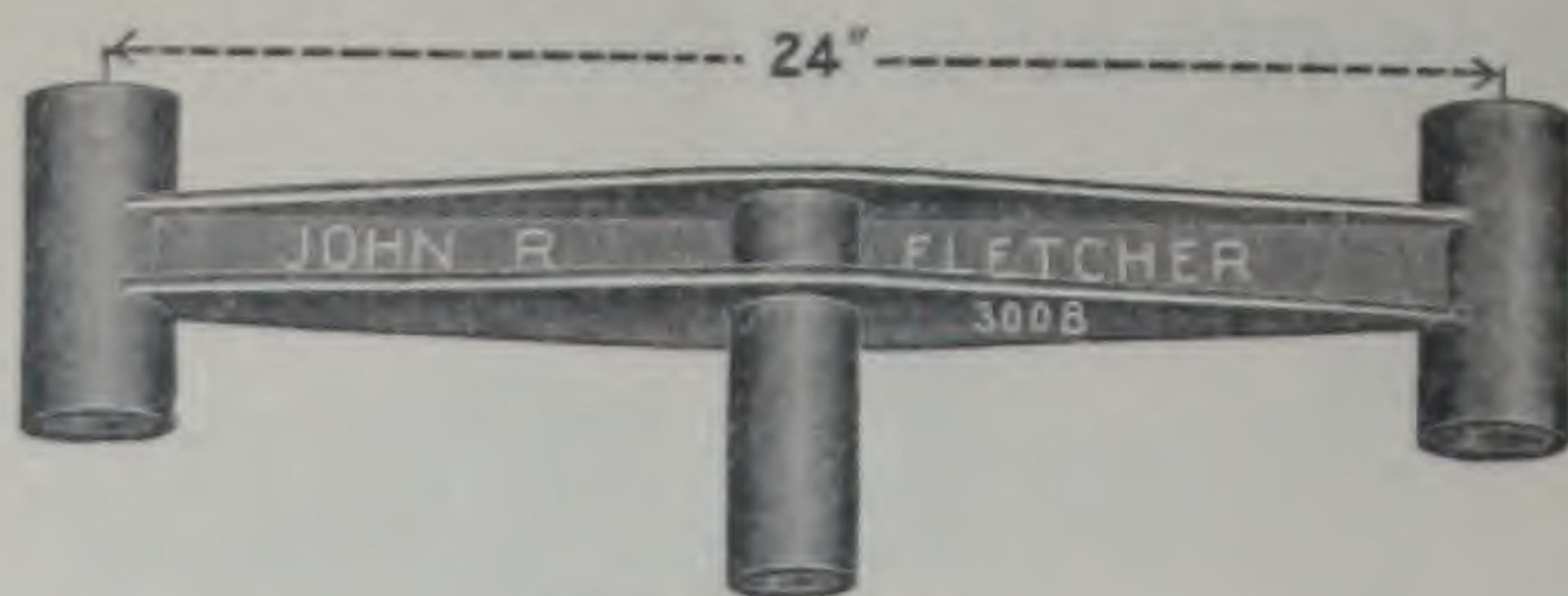
Nos. 1080 and 1081. 32c.
No. 1080. 1½ inch Thimbles.
No. 1081. 1½ inch Thimbles.
(Center openings for $\frac{5}{8}$ inch bolt.)



No. 1082. Break-Arm. 30c.
(Center opening for $\frac{5}{8}$ inch bolt.)

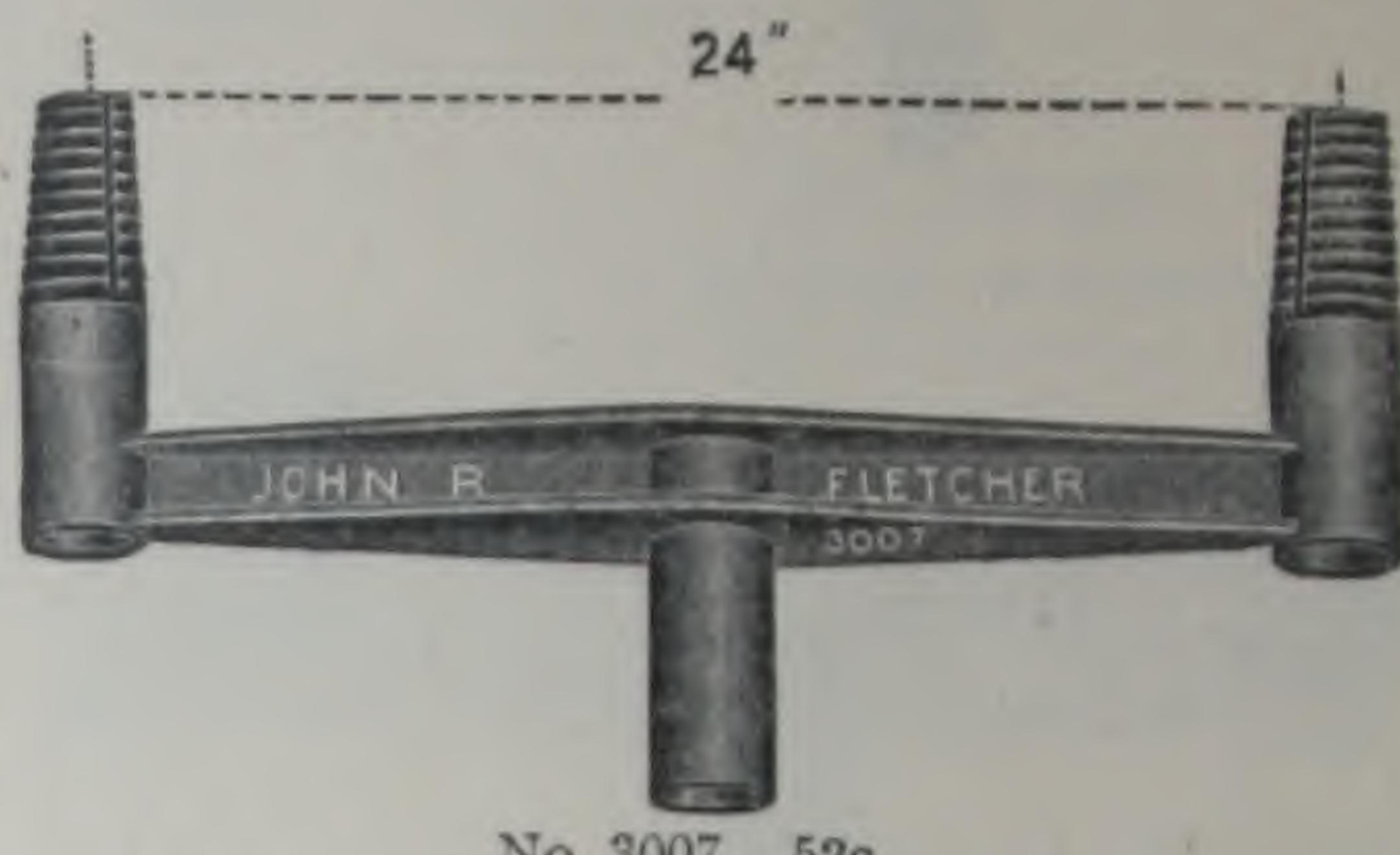


No. 3004. 60c.

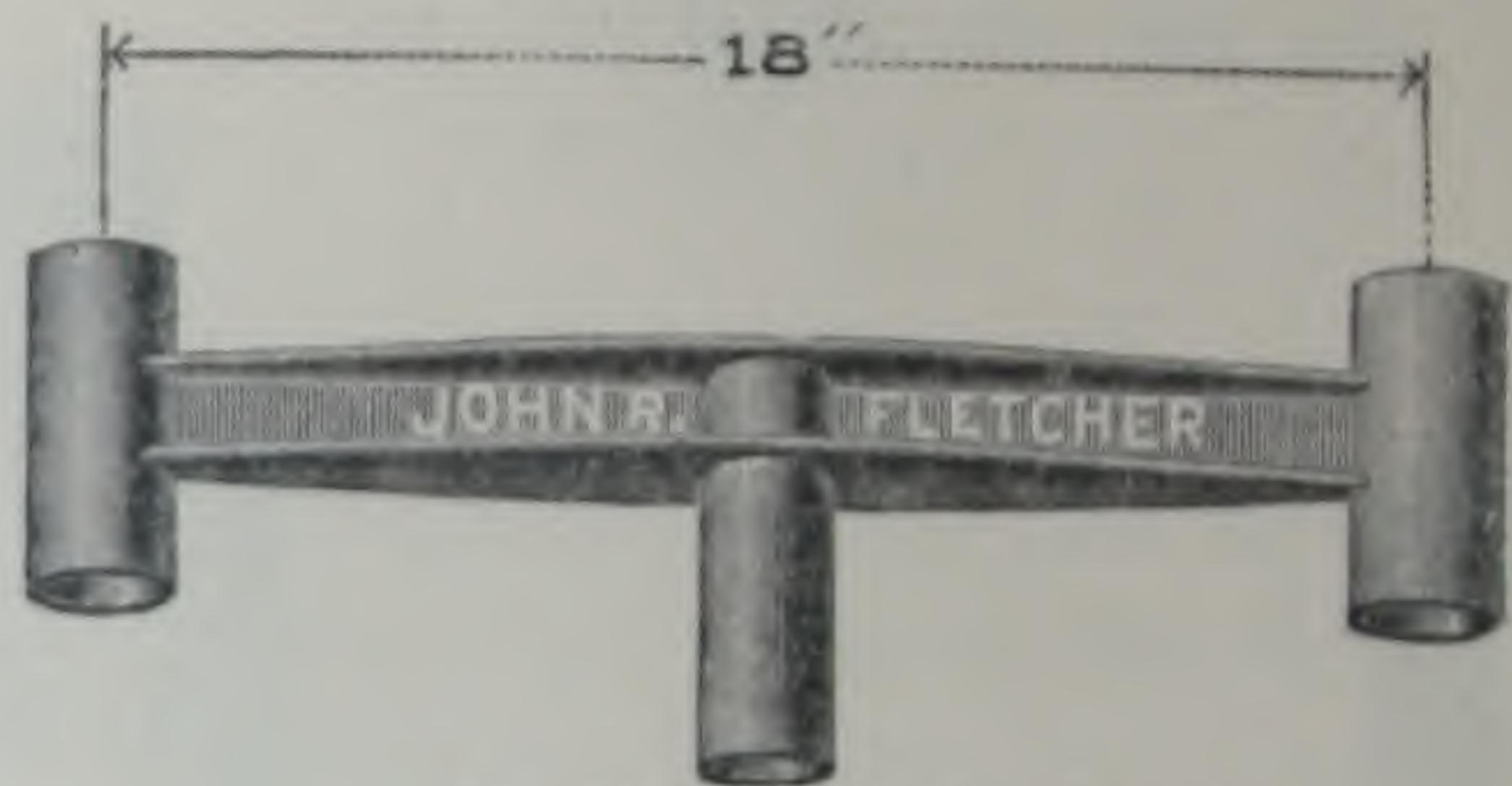


No. 3008. 55c.

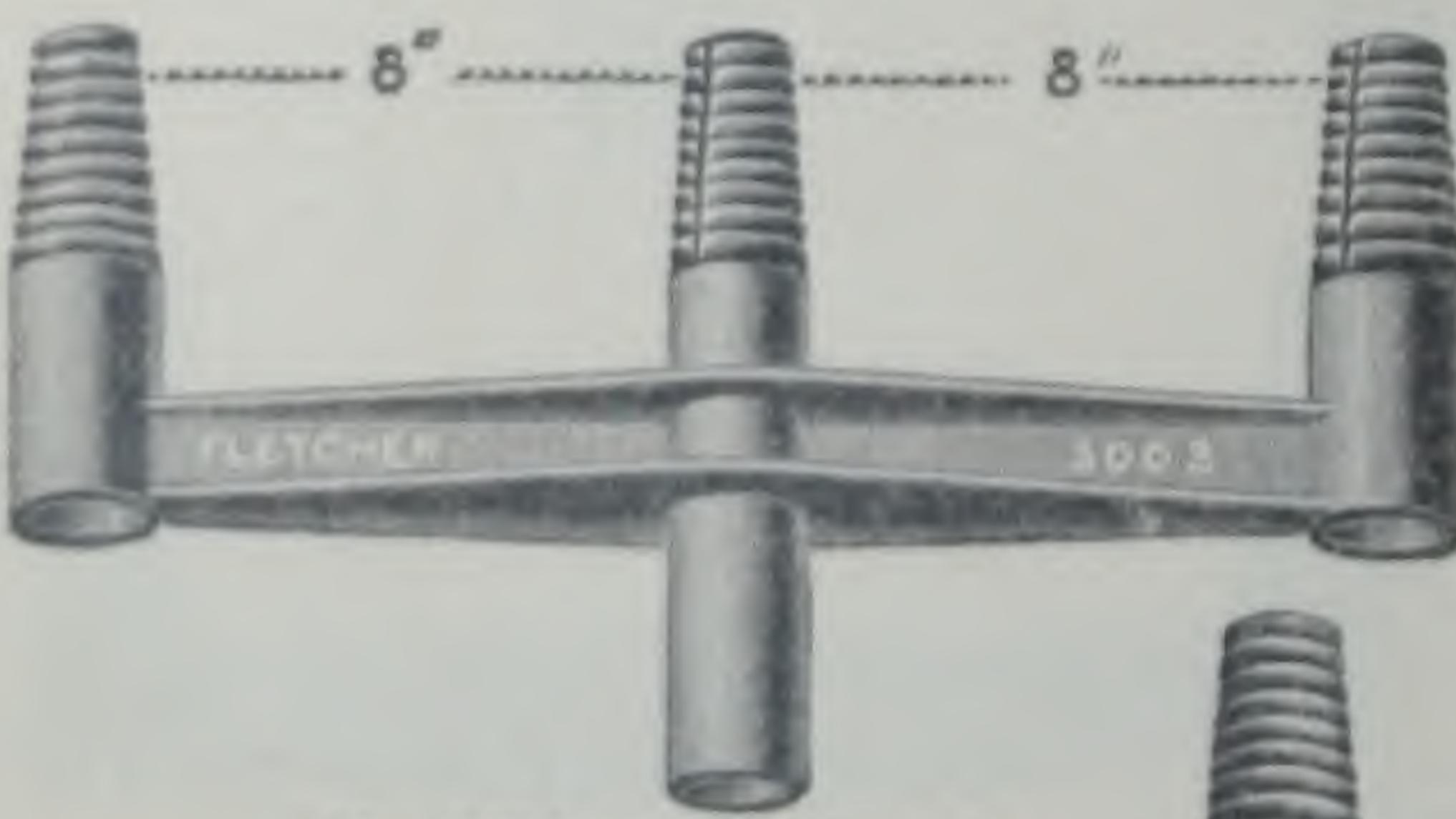
No. 3008. Thimble Break-Arm,
24 inch spread, for 1½ inch Pins,
and with 1½ inch center Stem.



No. 3007. 52c.

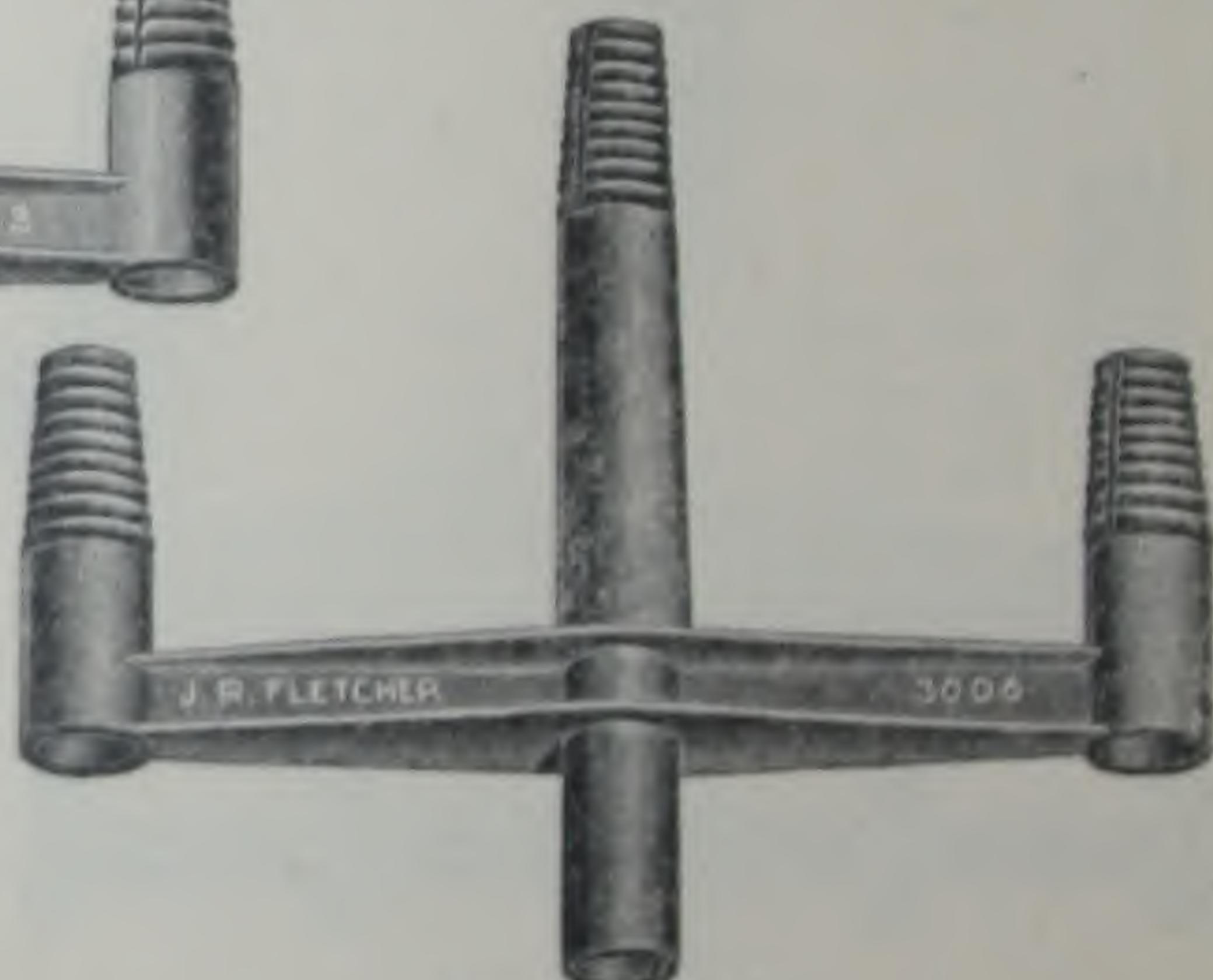


No. 3001 and 3005. 42c.

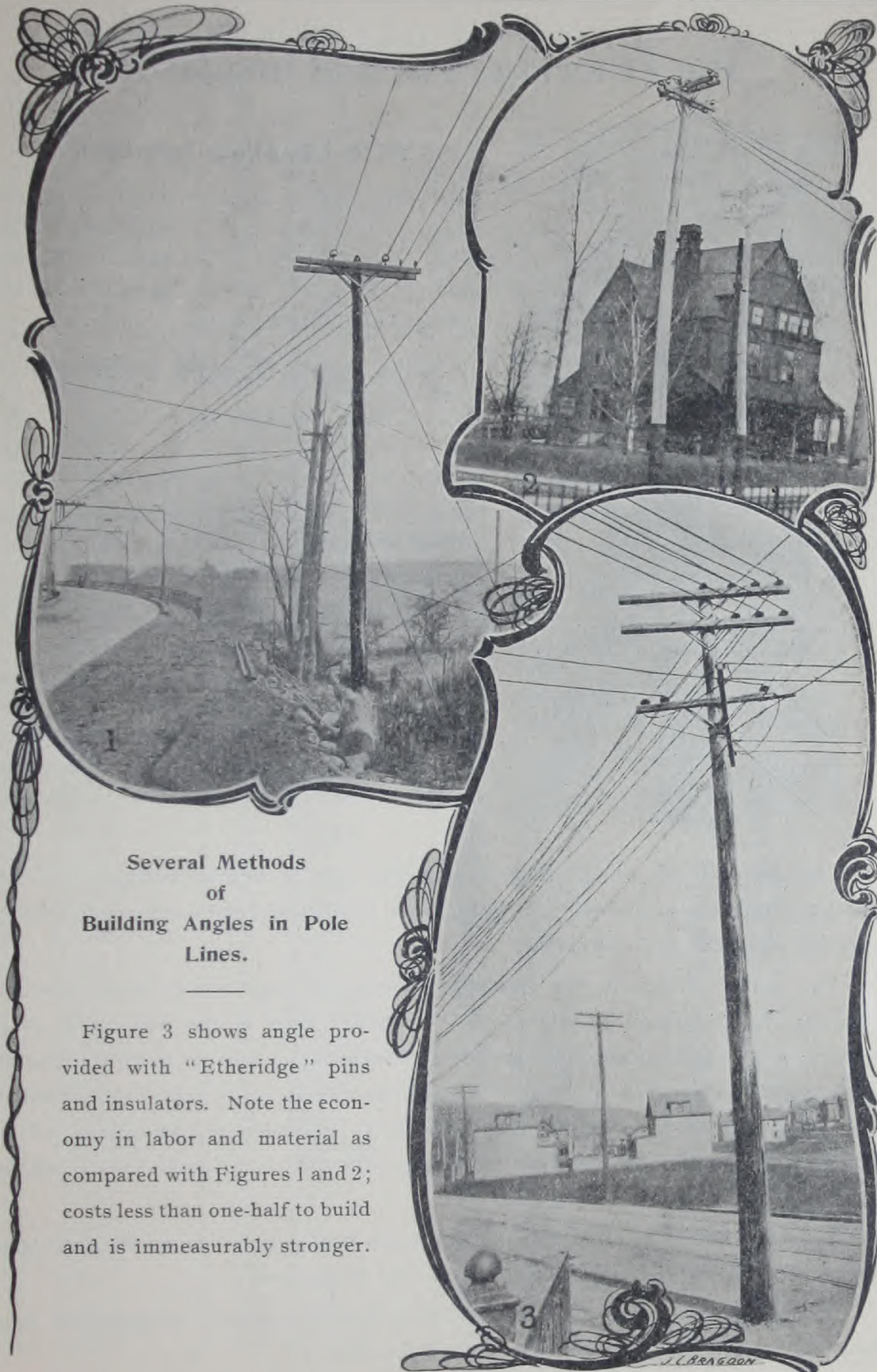


No. 3000 and 3003. 45c.

No. 3000. 1¼ inch Stem.
No. 3003. 1½ inch Stem.



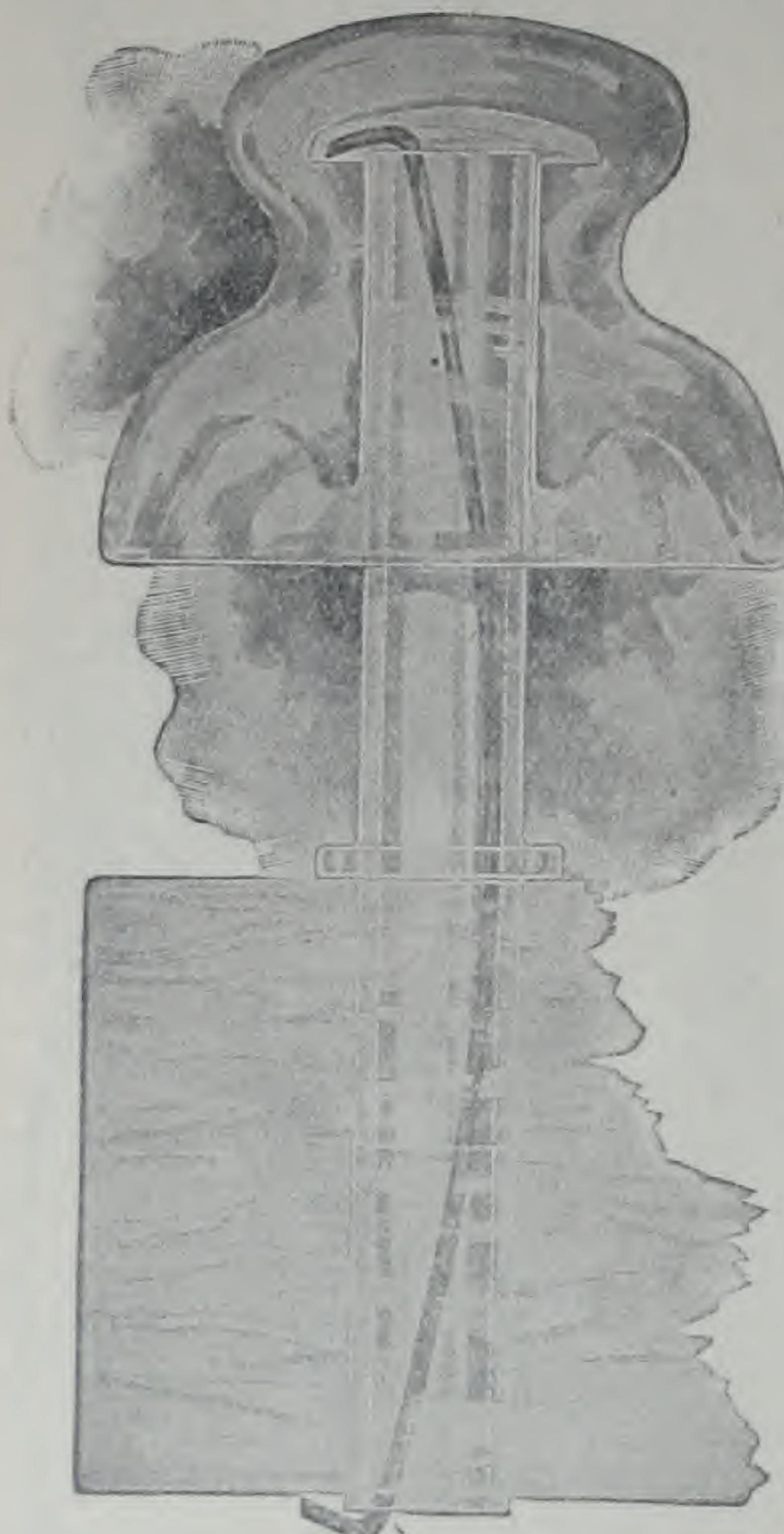
No. 3006. 56c.
With extra length center Pin.



Several Methods
of
Building Angles in Pole
Lines.

Figure 3 shows angle provided with "Etheridge" pins and insulators. Note the economy in labor and material as compared with Figures 1 and 2; costs less than one-half to build and is immeasurably stronger.

The Etheridge Pin and Insulator



With Standard Insulator.

• Cat. No.

- 1090. (Length from shoulder) $3\frac{3}{4}$ in. x $4\frac{1}{8}$ in., 50c
- 1091. " " " $4\frac{1}{8}$ in. x $4\frac{1}{8}$ in., 52c
- 1092. " " " $4\frac{1}{8}$ in. x $5\frac{1}{8}$ in., 56c
- 1093. " " " $5\frac{1}{8}$ in. x $5\frac{1}{8}$ in., 58c

Weight of Insulator, $3\frac{1}{2}$ lbs.

With Extra Length Petticoat.

Cat. No.

- 1095. (Length from shoulder) $3\frac{3}{4}$ x $4\frac{1}{8}$ in. - 56c.
- 1096. " " " $4\frac{1}{8}$ x $4\frac{1}{8}$ in. - 58c.
- 1097. " " " $4\frac{1}{8}$ x $5\frac{1}{8}$ in. - 62c.
- 1098. " " " $5\frac{1}{8}$ x $5\frac{1}{8}$ in. - 64c.

Weight of Insulator, 4 lbs.

Arranged for $1\frac{1}{2}$ inch hole in cross arm.

Surface groove of Insulators, $1\frac{1}{4}$ inch diameter radius.

	Code Words		Code Words
No. 1090.....	Kopras	No. 1095.....	Kworm
" 1091.....	Kwor	" 1096.....	Kwobao
" 1092.....	Kwoper	" 1097.....	Kwotow
" 1093.....	Kworrel	" 1098	Kworky

The advent of this device fulfills the long-felt want of electrical engineers and the electrical fraternity in general, of a strong, safe, reliable, and self-locking combination of a pin, insulator, and cross-arm.

The special design of the insulator relieves the porcelain or glass from all "leverage," and subjects it only to the "crushing" force of the line. The *plain* opening in the insulator and *plain* surface of the pin, also, permit an equal distribution of the pressure throughout its length. Being loose and free to turn in either direction, the insulator is thereby relieved from breakage by expansion or contraction, and all undue strain on the pin, insulator, cross-arm, and pole is relieved by its achieve characteristic.

This form of pin and insulator permits single arm construction on all *flat* angles of the line, thereby reducing the cost more than 50 per cent.

Troubles from broken pins and insulators have disappeared on lines that have been rebuilt with this form of tube pin and insulator.

CODE WORDS AND TELEGRAPH CODE.

310	Kwidkois	504	Kwinick	952	Ecliptic	1038	Knowla
311	Kwike	505	Kwinglet	953	Edgar	1039	Knownan
312	Khansamah	522	Ketdrak	954	Edge	1040	Salaam
313	Kwilerg	523	Ketmore	955	Edgewise	1041	Salable
314	Kwiblah	524	Ketsir	956	Edit	1042	Knub
315	Kwillesse	525	Ketnel	957	Salamstone	1043	Knubble
316	Kwiltin	526	Ketsey	958	Salebrous	1044	Knuck
317	Kwilangh	601	Kiddle	959	Knitch	1045	Knuckle
318	Kwidict	602	Kiddow	960	Edible	1046	Knuckly
319	Kwidifice	603	Kiddy	961-1A	Sale	1047	Knuff
320	Kwidamangu	610	Kidrow	961-1B	Knob	1048	Edda
321	Kwidaman	611	Kidken	961-1C	Knobber	1049	Eddy
322	Kwives	612	Kidkois	961-1D	Knobbiness	1050	Eden
323	Kwistle	641	Kidney Bean	961-A-1 $\frac{1}{4}$	Knobble	1051	Knaw
324	Kwilmagore	642	Kidnippers	961-B-1 $\frac{1}{4}$	Knobby	1052	Knur
346	Kwang	643	Kike	961-C-1 $\frac{1}{4}$	Knobkerrie	1054	Knurled
347	Kwack	644	Kikunomon	961-D-1 $\frac{1}{4}$	Knobstick	1055	Krentz
348	Kwnaw	645	Kilderken	961-A-1 $\frac{1}{2}$	Knobweed	1056	Kwumper
349	Kwdang	705	Kwisuth	961-B-1 $\frac{1}{2}$	Knockdown	1057	Kwunkiss
350	Kwarvel	706	Kwissar	961-C-1 $\frac{1}{2}$	Knocknee	1060	Kyanol
351	Kwarzho	707	Kwistress	961-D-1 $\frac{1}{2}$	Knockoff	1063	Kur
352	Kwarsten	708	Kwistvaen	962	Salience	1064	Kurl
353	Kwaque	709	Kwisutch	963A	Knockout	1065	Kurly
354	Kwatti	713	Kwisom	963B	Knop	1066	Kurling
355	Kwarth	714	Kwisten	963C	Knopped	1070	Kopeck
356	Kwary	715	Kwirumbo	963D	Knopper	1072	Kwumth
357	Kwim	716	Kwirkin	964	Saleratus	1073	Kwursch
358	Kwigs	717	Kwirkmas	965	Knopweed	1080	Kidsman
359	Kwimb	725	Kwirkgarth	966	Economy	1081	Kidsick
360	Kwimber	726	Kwirbeh	968	Knorrish	1082	Kie
361	Kwister	727	Kwirghis	969	Knosp	1090	Kopras
400-2	Kwayle	728	Kwiaboo	970	Knotberry	1091	Kwor
400-2 $\frac{1}{2}$	Kwan	729	Kwiosk	971	Knotbeam	1092	Kwoper
400-3	Kwarl	733	Kwhip	972	Salicine	1093	Kworrel
400-3 $\frac{1}{2}$	Kwast	734	Kwhipper	973	Knoop	1095	Kworm
400-4	Kwam	735	Kwhipped	974	Kruka	1096	Kwobao
400-4 $\frac{1}{2}$	Kwash	736	Kwioway	978	Kreos	1097	Kwotow
400-5	Kwashed	737	Kwioum	979	Krems	1098	Kworky
400-6	Kwasher	745	Kwiotom	980	Knightess	1101	Kern
400-7	Kwrank	746	Kwintra	981	Knife	1102	Kernel
421	Khanum	747	Kwintal	982	Knighthead	1103	Kermes
422	Khasi	748	Kwinship	983	Knightia	1104	Kerasine
423	Khass	749	Kwinsatsu	984	Knightlike	1105	Kerana
424	Khedivate	753	Kwinsat	990	Kyda	1106	Kerodon
425	Khel	754	Kwinric	901	Kyke	1107	Kerolite
425 $\frac{1}{2}$	Khidv	755	Kwinone	998	Kwunkit	1108	Kernish
426	Khilaut	756	Kwino	999	Knote	1109	Keblah
426 $\frac{1}{2}$	Khirkah	757	Kwinkle	1001	Cerate	1110	Keel
427	Khlistie	901	Koban	1002	Cerebus	1111	Keelage
427 $\frac{1}{2}$	Kubbah	902	Kobaoba	1003	Knotgrass	1112	Keelboat
428	Khmer	903	Kobag	1004	Cereal	1112 $\frac{1}{2}$	Kwissme
428 $\frac{1}{2}$	Kussir	907	Kile	1005	Cerebral	1113	Keeled
429	Khmerdom	912	Kwum	1006	Cerebrum	1113 $\frac{1}{2}$	Kwunckle
430	Khoikois	913	Khwew	1007	Cerement	1114	Keeler
431	Kholah	914	Kilerg	1008	Ceremony	1115	Keelfat
432	Khond	915	Kiblah	1009	Cereous	1116	Keelhaul
433	Khoorhan	916	Kilesse	1010	Corky	1117	Keelivine
457	Kos	917	Kiley	1011	Ceres	1118	Keelman
458	Kosta	918	Kilin	1012	Cerin	1121	Kaland
459	Koton	919	Kill	1013	Knotted	1122	Kadi
460	Khorda	920M	Solemnity	1014	Knottiness	1123	Kabook
461	Khur	922M	Solemnize	1015	Certainly	1124	Kabob
462	Khuskhus	924	Kiard	1016	Certainness	1125	Kabala
463	Khutbah	925	Kwiltie	1017	Certificate	1126	Kabasson
481	Kickball	926	Kwunruling	1018	Certified	1127	Kadias
482	Kicker	927	Kwunink	1019	Certify	1128	Kafas
483	Kickle	928	Kiangh	1020M	Solely	1129	Kafasson
484	Kickshaw	929	Kisk	1021	Knottting	1130	Kafilah
485	Kickshoe	938	Edict	1022M	Solecistic	1131	Kahani
487	Kicksies	939	Edifice	1023M	Solecise	1136	Kwunap
488	Kickumbob	940	Salamangu	1024M	Solecistically	1137	Kwunaping
489	Kickup	941	Salamack	1025	Knottled	1138	Kwunag
490	Kid	942	Knap	1026	Knotty	1139	Kwunagic
491	Kidang	943	Kwyak	1027	Knotwort	1140	Kwunay
492	Kidaris	948	Kwimnel	1028	Knoud	1144	Kwunabin
492 $\frac{1}{2}$	Kirsch	949	Katti	1029	Kontow	1145	Kwunia
493	Kidbearer	950A	Salaried	1030	Know	1146	Kwunob
493 $\frac{1}{2}$	Kirwin	950B	Kneed	1031	Knowall	1147	Kwunobal
494	Kidcote	950C	Knew	1032	Knowl	1148	Kwunotal
495	Karvel	950D	Knives	1033	Knowltonia	1234	Kief
496	Karpho	951A	Salary	1034	Known	1235	Kiekie
497	Karsten	951B	Knightage	1035	Kowtow	1236	Kieserite
502	Kwinkajon	951C	Knightship	1036	Knowt	1244-3	Klipdas
503	Kwinit	951D	Kniphofia	1037	Knowlan	1244-4	Killbuck

LAZILY	Do not fail to—	LAUNCHED	Kindly send us references as to your financial standing, or shall we ship via freight with draft attached to bill of lading?
LAZINESS	Have figured as closely as possible.	LAVENDER	Cannot guarantee delivery before the
LAZY	Freight must be paid.	LAWFULLY	The diameter is—
LEACH	Freight rate per hundred pounds to destination—	LAWFULNESS	Will do the best we possibly can.
LEADEN	What is freight rate per hundred pounds?	LAWGIVER	Do the best you possibly can.
LEAFAGE	Does not include—	LAWGIVING	Shall we do so?
LEAFING	Must be included.	LAWLESS	Do so.
LEAFLESS	Will keep you fully informed.	LAWN	Can do nothing until—
LEAGUED	Letter in transit with full particulars.	LAWRENCE	What have you done about—?
LEAKAGE	Advisable for you to place order at once, prices tending to an advance.	LAX	Will deposit sight draft on you to-day, unless advised to the contrary, for dollars.
LAUNCH	Your financial standing being unknown, we will send goods C. O. D unless otherwise instructed.	LOTHAR	Split porcelain insulations not sold separately.

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